								Current resources/ efforts			
Goal Team	SRS Outcome	Need	Completed? (Y/N)	More specific detail	Why is this needed?	Category	Other Goals/Outcomes This Addresses	Party)	1	Priority (Enter "High" or "Low")	GIS Comment
				Building on Choptank research by Morgan State -	to explain to the public/justify costs of			Partially - NCBO funded 8 research projects baywide, ex. study by Tom Ihde and			
Over-Arching Needs	s: Ecosystem Services			what are the benefits of oyster restoration? Beyond having oyster fishery, water				Scott Knoche evaluated the economic benefits of oyster reefs in Harris Creek -			
	1	oyster reef restoration benefits and ecosystem services	No	quality, habitat, economic, fishery productivity benefits  Unclear whether this refers	implementing oysters as BMP	Synthesis, Research	water quality, habitat	showed expanded fishery resources!		high	
	Fish Habitat	Potentially modify current BMP matrix to focus on habitat conditions		to WIP factsheets, or a quantitative study (e.g. Tetratech)	Not a priority						
	i isii i iabitat	nusical conditions		retratectly	Not a priority					1	Is GIS Team assistance
		Regional Fish Habitat Assessment: 1. compile habitat		Initiated with STAC	Needed to quantify			Partially - step 1 initiated through STAC workshop but wasn't quite complete, so			desired? Will GIS data be developed or
		and environmental, stressor, biological dataset; 2. analyze biological response data for relevance; 3. pilot fish habitat assessment; 4. conduct watershed regional		workshop and FY2018 GIT Funded project, will require extensive long-term effort	existing habitat area and condition, and provide a tool to prioritize areas for			ongoing GIT funded project led by USGS and NOAA is completing step #1 and step			assembled? W this data be
		assessment; 5. ID/develop spatial tools useful to partners	No	with support from multiple partners  Incorporated under Fish	conservation and restoration	Analysis	habtiat, water quality	#2 (analyze biological response)	NFHP habitat assessment, MAFMC efforts	high	made available to partners?
	Fish Habitat	ID healthy habitat criteria ID spatial tools and datasets to map ranges and		Habitat Assessment Incorporated under Fish							
	Fish Habitat	stressors-		Habitat Assessment Incorporated under Fish							
	Fish Habitat	Convert fish and habitat survey data to spatial datasets  Explore options for monitoring programs to cover range		Habitat Assessment							
	Fish Habitat	of species		multi-species monitoring?							
				Determine key sub-sampling locations for intermittent monitoring, and develop	Needed to provide data for environmental			Dr. Bi at UMCES using sonar			
		European and effective months de la consequence		cost-effective methods for collecting snapshots of data	modeling, and inform ecosystem factors			and other imaging techniques to understand			
	Fish Habitat	Explore cost-effective methods/approaches to phytoplankton and zooplankton monitoring	No	continues to be brought up as a need  Develop a shallow water	populations Needed to identify	Monitoring	water quality	plankton distributions, previously funded at DNR several surveys exist,		low	
	Fish Habitat	Develop shallow water monitoring survey proposal for gaps	No	monitoring plan that can incorporate monitoring needs of other outcomes	existing surveys and gaps in tributaries sampled, and standardize across	Monitoring	habitat	conducted by MD DNR and VIMS (always nice to have more data, not critical at this		low	
				Methods are being				Partially - pilot project initiated for GIT funded			
	Fish Habitat / Water	Monitoring vertical water column habitat (DO volume		developed through FY2018 GIT Funded hypoxia pilot	Needed to pair WQ data	Manifestina		study, will need to expand or pilot project to implement or			
	Quality Fish Habitat	and spatial extent for hypoxia)  Pair WQ data with living resources data-	No	project	with living resources	Monitoring		a larger scale		low	
	Fish Habitas	language of field healthan areas		Incorporated under Fish							
	Fish Habitat	Improved fish habitat maps		Habitat Assessment  Closely related to shoreline threshold analysis and							
	Oysters	Shoreline indicator development		inventory							
					Needed to compare						
					methods for restored tributaries across MD/VA, will require long-			partially - NOAA has funded monitoring; NCBO and state jurisdictions support; post-			
					term planning as more and more reefs need to be assessed. Also need to			restoration will go on 3-6 years; monitoring funds can't match monitoring needs;			
				Research by ORP to develop standardized, cost-effective monitoring restoration				used GIT funding for methods to reduce cost of monitoring in MD - need			
	Oysters	Oyster restoration monitoring	Ongoing	methods based on success metrics	needed to assess if restoration is working	Monitoring		multiple years of restoration		high	
				Knowing the threshold is not meaningful without understanding the existing	Needed to understand			Partially - ongoing GIT			
	Forage Fish	Shoreline threshold analysis	No	baseline through an inventory of shoreline condition/type (below)	coastal development impacts to nearshore species	Analysis	habitat	funded project, need depending on outcome of project recommendations		low	
				Inventory to quantify the amounts/percentage of							Will GIS data b developed or
Sustainable Fisheries				shoreline type - natural or hardened; more data exist for VA but are lacking for	Needed to understand coastal development impacts to nearshore		habitat, stakeholder				assembled? W this data be made available
	Fish Habitat	Shallow water monitoring plan that can incorporate	No	MD	species		engagement/stewardship	Already underway at VIMs ar	d to be completed in April - will ha		to partners?
	Forage Fish	monitoring needs of other outcomes		Addressed above							
								Partially - previous GIT funded projects have given			
					Needed to evaluate relative abundance of key	,		pilot or one method; now looking at how that would be aggregated and on what			
				Pilot project based on 2016	forage species from year to year, informing	Data Gathering /		scale, spatially or temporally; GIT funded project and quantitative methods now			
	Forage Fish	Forage fish indicator	No	GIT funded study	1	Analysis		being developed by NCBO		low	
				Rank varying factors influence on population dynamics, understand links							
		Identify and describe ecosystem factors affecting		between habitat, climate, predator-prey, water quality and blue crab population	Needed to inform ecosystem-based approaches to blue crab			GIT Funded research	ecosystem modeling STAR		
	Blue Crab Abundance	1	No	dynamics  After MD DNR adopted new	management	Analysis	water quality, habitat	initiated to address this	workgroup	low	
				licensing system for recreational crab fishing, there is limited data to							
				inform estimates of recreational harvest - is rec	Needed to quantify/characterize the blue crab recreational			partially - SERC Matt Ogburn			
	Blue Crab Abundance	Recreational harvest survey	No	harvest actually 8% of overall harvest?	fishery	Data Gathering		study, DNR contracted survey		low	
				Stock assessment update							
				completed this year (not peer reviewed yet) saying that current framework is							
				successful and effective (no change in refernce points);							
				scientists are working to finalize a report with updated data included in							
				the existing stock assessment model, and to develop decision tools;				Partially - supported by MD DNR and CBSAC; no funding			
				when would we conduct a new update using the same model with new data? Need	Needed to determine			in place for full benchmark stock assessment - eventually might reach a point where	,		
	Blue Crab Abundance	Stock assessment update	No	more concrete path for what would trigger next benchmark	when management action is warranted for the blue crab stock	Analysis		that is necessary and would take years to come up with funding		high	
	Blue Crab Managemen	t None									
					Needed to understand the potential ecological						
		Blue catfish predation in tidal reaches of tributaries	No	The impact of invasive blue catfish on native species (e.g. blue crab) is uncertain	impacts of an expanding blue catfish population in the Chesapeake	Research	blue crab abundance	partially - VMRC funded study to examine predation on blue crab		low	
		·			Needed to determine			Part of CRWG workplan (one			
				Fish species range/distributions are	local impacts of climate change on coastal fisheries, how			of the recommended indicators), partially related to Woodland et al. GIT			
		Climate related changes in fish distribution	No	changing due to temperature-driven shifts	management can respond	Data gathering, Analysis	Climate Resiliency Workgroup	funded study -but no	GIT-funded project possible	high	
				How do we balance the	In order to gain support for restoration efforts,						
				interests of various use groups? Ex: support for oyster sanctuaries or	increase public investment, better understand public						
		Gauging public perceptions and commercial fishery stakeholder views on key Bay resources	No	regulations on invasive catfish	opinions and tools to be responsive	research	stewardship, habitat, communications workgroup	Ex: VIMS survey of crabbers on derelict pots		low	le CIC T
	1										Is GIS Team assistance desired to map
							1				indicator in ChesapeakePro
						I -	Healthy Watersheds (no overall Bay-wide indicator,	ICPRB has done work but we			ress? Will this
				This is requisite of the Bay Program and Stream Health outcome. Need to analyze	To report on Stream	Data Gathering, Analysis - translation of Chessie BIBI to	overall Bay-wide indicator, scalable in terms of reporting process. Will help	need to report. No funding to report on annual progress			data be made available to
	Stream Health	Support for reporting progress for Chessie BIBI	No	Program and Stream Health	l '	Analysis - translation of	overall Bay-wide indicator, scalable in terms of reporting process. Will help	need to report. No funding	Continued in kind support from Jurisdictions for data collection.		data be made
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		Stream Health/Fish Habitat & Passage/Water Quality: Establish guidelines and relationship between stream coordior restoration acivities and functional lift including biological lift. This information will support project slection, design, construction and monitoring to produce better stream health outcomes - biological lift.  Stream Health/Toxics/Habitat: The identification and extent to which water quality stressors and sources of		Program and Stream Health outcome. Need to analyze and report on the indicator.  Stream Corridor Restoration efforts have demonstrated ability to reduce sediment and nutrient loadings, however, the abaility to achieve biological lift has been more challenging.  Build on function based restoration approach to document restoration success stores and lessons learn to guide better design and construction to improve stream health outcomes.  Need to understand how to design project to give biological lift beyond load reduction.  Biological recovery is often the outcome by which stream health is measured. Progress towards biological recovery may be limited if stressors associated with sustaining populations are not addressed through management actions.  Known stressors may include: toxics, temperature, flow, habitat, pH, chloride, bacteria, DO. Need to review other stressors impacting biological recovery of	To make progress towards stream health outcome through better restoration efforts. Forum necessary for key stakeholders to discuss best practices for stream restoration.  Delivery of N, P and S affects Bay health (Bay TMDL) however there are other local impairments and stressors that affect recovery of local stream health and thus the Stream Health Outcome. Management actions that address both of these desired outcomes need to align resources to address recovery of	Analysis - translation of Chessie BIBI to stream miles  Data gathering through primary (monitoring) or secondary (literature) research. Synthesis via forum discussion.	overall Bay-wide indicator, scalable in terms of reporting process. Will help to reinforce to their overall goal)  Fish Habitat, Fish Passage, Water Quality	need to report. No funding to report on annual progress Potential USGS end of year money.  STAC WORKSHOP a Tew years back has been good baseline of informatino to build upon. Tom Schueler via cooperative agreement with CBP to chair Urban Stormwater Workgroup (alongside input from Stream Health Workgroup members) to determine how stream related BMPs will be verified. The Verification Workgroup will provide recommendations on verification for restoration practices with scope beyond just water quality. Verification Workgroup will begin to explore function uplifft, but it is only one  None. Seed money could provide an intern/graduate student to synthesize this information. Scott Phillips and Scott Stranko are willing	Continued in kind support from Jurisdictions for data collection.  2019 GIT Funding  Full recovery of stream health will result from removal of stressors not limited to nitrogen, phosphorus, and sediment. Current funding per	High	data be made available to
		Stream Health/Fish Habitat & Passage/Water Quality: Establish guidelines and relationship between stream coordior restoration acivities and functional lift including biological lift. This information will support project slection, design, construction and monitoring to produce better stream health outcomes - biological lift.  Stream Health/Toxics/Habitat: The identification and extent to which water quality stressors and sources of impairments associated with a TMDL may limit		Program and Stream Health outcome. Need to analyze and report on the indicator.  Stream Corridor Restoration efforts have demonstrated ability to reduce sediment and nutrient loadings, however, the abaility to achieve biological lift has been more challenging.  Build on function based restoration approach to document restoration success stores and lessons learn to guide better design and construction to improve stream health outcomes.  Need to understand how to design project to give biological lift beyond load reduction.  Biological recovery is often the outcome by which stream health is measured. Progress towards biological recovery may be limited if stressors associated with sustaining populations are not addressed through management actions.  Known stressors may include: toxics, temperature, flow, habitat, pH, chloride, bacteria, DO. Need to review other stressors impacting	To make progress towards stream health outcome through better restoration efforts. Forum necessary for key stakeholders to discuss best practices for stream restoration.  Delivery of N, P and S affects Bay health (Bay TMDL) however there are other local impairments and stressors that affect recovery of local stream health and thus the Stream Health Outcome. Management actions that address both of these desired outcomes need to align resources	Analysis - translation of Chessie BIBI to stream miles  Data gathering through primary (monitoring) or secondary (literature) research. Synthesis via forum discussion.	overall Bay-wide indicator, scalable in terms of reporting process. Will help to reinforce to their overall goal)  Fish Habitat, Fish Passage, Water Quality	need to report. No funding to report on annual progress Potential USGS end of year money.  STAC WORKSTOP a Tew years back has been good baseline of informatino to build upon. Tom Schueler via cooperative agreement with CBP to chair Urban Stormwater Workgroup (alongside input from Stream Health Workgroup members) to determine how stream related BMPs will be verified. The Verification Workgroup will provide recommendations on verification for restoration practices with scope beyond just water quality. Verification Workgroup will begin to explore function uplilft, but it is only one	Full recovery of stream health will result from removal of stressors not limited to nitrogen, phosphorus, and sediment. Current funding per TMDL does not recognize this	High	data be made available to
	Stream Health	Stream Health/Fish Habitat & Passage/Water Quality: Establish guidelines and relationship between stream coordior restoration acivities and functional lift including biological lift. This information will support project slection, design, construction and monitoring to produce better stream health outcomes - biological lift.  Stream Health/Toxics/Habitat: The identification and extent to which water quality stressors and sources of impairments associated with a TMDL may limit	No	Program and Stream Health outcome. Need to analyze and report on the indicator.  Stream Corridor Restoration efforts have demonstrated ability to reduce sediment and nutrient loadings, however, the abaility to achieve biological lift has been more challenging.  Build on function based restoration approach to document restoration success stores and lessons learn to guide better design and construction to improve stream health outcomes.  Need to understand how to design project to give biological lift beyond load reduction.  Biological recovery is often the outcome by which stream health is measured. Progress towards biological recovery may be limited if stressors associated with sustaining populations are not addressed through management actions.  Known stressors may include: toxics, temperature, flow, habitat, pH, chloride, bacteria, DO. Need to review other stressors impacting biological recovery of streams other than nutrient and sedimetn pollution.  Collaborate enforts with groups of similar interest. Leveraging resources across groups could result in more	To make progress towards stream health outcome through better restoration efforts. Forum necessary for key stakeholders to discuss best practices for stream restoration.  Delivery of N, P and S affects Bay health (Bay TMDL) however there are other local impairments and stressors that affect recovery of local stream health and thus the Stream Health Outcome. Management actions that address both of these desired outcomes need to align resources to address recovery of both local stream and Bay health.	Analysis - translation of Chessie BIBI to stream miles  Data gathering through primary (monitoring) or secondary (literature) research. Synthesis via forum discussion.  Literature review and interview/survey s with State representatives working on	overall Bay-wide indicator, scalable in terms of reporting process. Will help to reinforce to their overall goal)  Fish Habitat, Fish Passage, Water Quality  Toxic Contaminants, Fish	need to report. No funding to report on annual progress Potential USGS end of year money.  STAC WORKSHOP a Tew years back has been good baseline of informatino to build upon. Tom Schueler via cooperative agreement with CBP to chair Urban Stormwater Workgroup (alongside input from Stream Health Workgroup members) to determine how stream related BMPs will be verified. The Verification Workgroup will provide recommendations on verification for restoration practices with scope beyond just water quality. Verification Workgroup will begin to explore function uplilft, but it is only one  None. Tried to work with Fish position.  None. Tried to work with Fish position.	Continued in kind support from Jurisdictions for data collection.  2019 GIT Funding  Full recovery of stream health will result from removal of stressors not limited to nitrogen, phosphorus, and sediment. Current funding per TMDL does not recognize this scope.	High	data be made available to
	Stream Health	Stream Health/Fish Habitat & Passage/Water Quality: Establish guidelines and relationship between stream coordior restoration acivities and functional lift including biological lift. This information will support project slection, design, construction and monitoring to produce better stream health outcomes - biological lift.  Stream Health/Toxics/Habitat: The identification and extent to which water quality stressors and sources of impairments associated with a TMDL may limit	No	Program and Stream Health outcome. Need to analyze and report on the indicator.  Stream Corridor Restoration efforts have demonstrated ability to reduce sediment and nutrient loadings, however, the abaility to achieve biological lift has been more challenging.  Build on function based restoration approach to document restoration success stores and lessons learn to guide better design and construction to improve stream health outcomes.  Need to understand how to design project to give biological lift beyond load reduction.  Biological recovery is often the outcome by which stream health is measured. Progress towards biological recovery may be limited if stressors associated with sustaining populations are not addressed through management actions.  Known stressors may include: toxics, temperature, flow, habitat, pH, chloride, bacteria, DO. Need to review other stressors impacting biological recovery of streams other than nutrient and sedimetn pollution.  Conaborate errorts with groups of similar interest.  Leveraging resources across groups could result in more efficient monitoring efforts. Coordinate cross-outcomes, co-benefits from GIT-	To make progress towards stream health outcome through better restoration efforts. Forum necessary for key stakeholders to discuss best practices for stream restoration.  Delivery of N, P and S affects Bay health (Bay TMDL) however there are other local impairments and stressors that affect recovery of local stream health and thus the Stream Health Outcome. Management actions that address both of these desired outcomes need to align resources to address recovery of both local stream and Bay health.  To ensure accurate	Analysis - translation of Chessie BIBI to stream miles  Data gathering through primary (monitoring) or secondary (literature) research. Synthesis via forum discussion.  Literature review and interview/survey s with State representatives working on	overall Bay-wide indicator, scalable in terms of reporting process. Will help to reinforce to their overall goal)  Fish Habitat, Fish Passage, Water Quality  Toxic Contaminants, Fish	need to report. No funding to report on annual progress Potential USGS end of year money.  STAC WORSHOP A TEW YEARS back has been good baseline of informatino to build upon. Tom Schueler via cooperative agreement with CBP to chair Urban Stormwater Workgroup (alongside input from Stream Health Workgroup members) to determine how stream related BMPs will be verified. The Verification Workgroup will provide recommendations on verification for restoration practices with scope beyond just water quality. Verification Workgroup will begin to explore function uplilft, but it is only one  None. Tried to work with Fish passage for joint they ultimately declined. Funding for pilot  None. Tried to work with Fish position.	Continued in kind support from Jurisdictions for data collection.  Full recovery of stream health will result from removal of stressors not limited to nitrogen, phosphorus, and sediment. Current funding per TMDL does not recognize this scope.	High	data be made available to
	Stream Health	Stream Health/Fish Habitat & Passage/Water Quality: Establish guidelines and relationship between stream coordior restoration acivities and functional lift including biological lift. This information will support project slection, design, construction and monitoring to produce better stream health outcomes - biological lift.  Stream Health/Toxics/Habitat: The identification and extent to which water quality stressors and sources of impairments associated with a TMDL may limit	No	Program and Stream Health outcome. Need to analyze and report on the indicator.  Stream Corridor Restoration efforts have demonstrated ability to reduce sediment and nutrient loadings, however, the abaility to achieve biological lift has been more challenging.  Build on function based restoration approach to document restoration success stores and lessons learn to guide better design and construction to improve stream health outcomes.  Need to understand how to design project to give biological lift beyond load reduction.  Biological lift beyond load reduction.  Biological recovery is often the outcome by which stream health is measured. Progress towards biological recovery may be limited if stressors associated with sustaining populations are not addressed through management actions. Known stressors may include: toxics, temperature, flow, habitat, pH, chloride, bacteria, DO. Need to review other stressors impacting biological recovery of streams other than nutrient and sedimetn pollution.  Collaborate enorts with groups of similar interest. Leveraging resources across groups could result in more efficient monitoring efforts. Coordinate cross-outcomes, coordinate	To make progress towards stream health outcome through better restoration efforts. Forum necessary for key stakeholders to discuss best practices for stream restoration.  Delivery of N, P and S affects Bay health (Bay TMDL) however there are other local impairments and stressors that affect recovery of local stream health and thus the Stream Health Outcome. Management actions that address both of these desired outcomes need to align resources to address recovery of both local stream and Bay health.  To ensure accurate Outcome progress	Analysis - translation of Chessie BIBI to stream miles  Data gathering through primary (monitoring) or secondary (literature) research. Synthesis via forum discussion.  Literature review and interview/survey s with State representatives working on TMDLs  Monitoring,	overall Bay-wide indicator, scalable in terms of reporting process. Will help to reinforce to their overall goal)  Fish Habitat, Fish Passage, Water Quality  Toxic Contaminants, Fish	need to report. No funding to report on annual progress Potential USGS end of year money.  STAC WORSHOP A TEW YEARS back has been good baseline of informatino to build upon. Tom Schueler via cooperative agreement with CBP to chair Urban Stormwater Workgroup (alongside input from Stream Health Workgroup members) to determine how stream related BMPs will be verified. The Verification Workgroup will provide recommendations on verification for restoration practices with scope beyond just water quality. Verification Workgroup will begin to explore function uplilft, but it is only one  None. Seed money could provide oversight to this position.  None. Tried to work with Fish Passage for, joint they ultimately proposal, but they ultimately proposal pr	Continued in kind support from Jurisdictions for data collection.  Pull recovery of stream health will result from removal of stressors not limited to nitrogen, phosphorus, and sediment. Current funding per TMDL does not recognize this scope.	High	data be made available to

	SRS-identified need
	3N3-Identified fleed
Color key	
	GIT-identified need
Category	Description
Category	Need requires some sort of modeling effort,
	either with CBP modeling team or outside
Modeling	support  Need is pertaining to monitoring efforts
	including new efforts, utilizing existing efforts,
Monitoring	coordinating efforts, etc.
Research	Need requires to original research to address or generation of new data
	Need requires synthesizing existing research or
	advancing science by pulling from multiple
Synthesis	current lines of research
	Need requires new analysis be conducted on
Analysis	existing data or information
Data Cathoring	Need requires identifying, finding, consolidating,
Data Gathering	etc. existing datasets or data layers
	Data, information or efforts exist or are ongoing,
Coordination	but coordination is needed between groups Scientific need is met, but resources are
Training/Outreach/Co	necessary to disseminate information, data,
mmunication	product, etc.
GIS Analysis and	Items where the CBPO GIS team could provide
Mapping	support.
	Does not fit into the above categories; please
Other	feel free to assign your own.

Other

										_	
Habitat	Brook Trout	Funding for brook trout monitoring	N	Funding to support data collection by partners, research eDNA, other monitoring methods, etc. Need to look deeper into use of eDNA and other efficient methods using latest science.	To ensure accurate Outcome progress reporting, identify geographic priority areas; tied directly to indicator.	1	Fish Passage, Stream Health, Fish Habitat.	None, no funding secured.	New USGS Project eTrout designed to use virtual reality and crowdsourcing platforms to collect data on brook trout occupancy, abundance, behavior, and habitat use for ecological analysis and engage students/citizen scientists educational opportunities. Pilot project in 2018-2019 in selected Chespeake Bay watersheds including Shenandoah National Park, Catoctin Mountain Park, and various Trout Unlimited restoration projects. This effort could be expanded to include video collection by visitors to recreational areas (e.g., National/State Parks) as well as NGO partners throughout the Bay Watershed.	t	
	Brook Trout	Expand spatial-temporal groundwater model to rest of Chesapeake Bay Watershed to predict groundwater influence in headwater streams.	N	Current groundwater from USGS Potomac/Shenandoal modeling only applies to Shenandoah National Park. Additional data are needed to parameterize current model to other landscape settings/geologies.	land use. Identifying those stream reaches with significant groundwater upwelling is			None	None in the near term	Low	Will GIS data be developed or assembled? Wil this data be
	<del>Wetlands</del>	Work with partners (NRCS, Chesapeake Conservancy, etc.) to explore development opportunities (e.g. expansion of USC wetland mapping model) and compile the most accurate and up to date wetland GIS information available. Prioritize the use of this data to identify large scale project opportunities.	Ħ	The Wetland Workgroup- needs STAR's assistance to- compile best existing data, explore and pursue data- development opportunities- with partners.  Currently, CBP does not have a habitat-based acreage/baseline. No A&M	Adopting a habitat-based indicator will better reflect Outcome	Data Gathering, Analysis, Research, Synthesis					made available to partners? Is this relate to existing geospatial support agreement with Chesapeake Conservancy? Is GIS Team assistance desired to implement ACJ
	Black Duck	Development of new black duck indicator: new baseline, acreage target	N	filed yet. Will use ACJV Bioenergetics model to adopt a habitat-based indicator. We need STAR's assistance to develop this (using ACJV's bioenergetics model).	language and progress. With the adoption of a new indicator, an accompanying baseline/acreage target with which to work toward progress with becomes necessary.	Analysis, Modeling, Data Gathering	Wetlands	None	None	High	bioenergetics model? Will GIS data be developed or assembled? Wil this data be made available
	SAV Fish Passage	Assessment of future SAV habitat availability in relation to climate change, sea level rise, shoreline alteration, and nearshore development to determine if segment-specific and Bay-wide SAV restoration goals are feasible.	N	This project would use the 1 meter resolution land cover data combined with bathymetry data, SAV data, and future sea level rise projection scenarios to determine if the segment-specifc and Bay-wide SAV restoration goals are feasible. Results would inform potenial updates to the goals.	Chesapeake Bay restoration success is measured by a number of factors, one of which is SAV acreage in the Bay and its tributaries. Each of the 92 CBP segments has an SAV restoration target, and significant resources are allocated to SAV restoration - both direct and indirect restoration efforts. If climate change impacts, such as sea level rise, coupled with population growth and development in the watershed will prevent SAV from being fully restored in any or all segments, this analysis will inform a review of the goals and any changes deemed necessary.	Data Gathering, Analysis	As SAV provides a number of ecosystem services, including the provision of food and habitat for a number of commercially and ecologically important fish and shellfish, as well as resident and migrating waterfowl, erosion control and sediment stabilization, oxygenation of the water column, carbon sequestration, and buffering of coastal acidification, an inability to restore SAV to the designated acreage level will impact the overall restoration of bay health. Multiple fisheries will be impacted and other ecosystem services will be lost to varying degrees. Achievement of the water quality, fish habitat, blue crab, black duck, oyster, forage, and wetland outcomes could all be impacted. Because SAV is one of the most easily visible indicators of water quality in the Bay, it's also an excellent tool for	This analysis has not been conducted, nor is any effort being taken to complete it at this time.	Becky Golden, Md DNR, is a co-PI on a proposal w/ GMU and TNC for a project entitled "FY2019 Quantifying the benefits of natural and nature-based features in Maryland's Chesapeake and Atlantic Coasta Bays to inform conservation and management under future sea level rise scenarios." This proposal will be submitted to NOAA once the federal shutdown is over. Some of the objectives of this project including re-running the SLAMM model with the SAV component and mapping SAV habitat under future sea level rise scenarios. If funded, this "need" would be at least partially addressed as part of this project.	High	Is GIS Team assistance desired? Will GIS data be developed or assembled? Wi this data be made available to partners?
				refine urban phosphorus sensitivities & 2) investigate the impact of urban BMPs	phosphorus simulation in						
	WQGIT/Modeling	Finer scale modeling	N	using SWAT and/or SWMM models.  Investigate if other models	stream bank erosion simulation  to assist tidal jurisdictions with local	Modeling					
	WQGIT/Modeling WGIT/Modeling/Clima	Implement a estuary model in local waters  t Characterize uncertainty in the removal performance of BMPs due to climate change	N	can better represent tidal tributaries http://www.chesapeake.org /stac/workshop.php?activit y id=280		Modeling  Modeling					
	Toxics Policy/Prevention	Explore establishing a consortium to share information on addressing PCB TMDLs and reducing their impacts	N	Many CBP stakeholders and jurisdictions have local PCB TMDLs. There is a need have a consortium for facilitation and technical exchange throughout the lifecycle of the PCB TMDLs for more effective reduction of PCBs. Need to bring together people that can guide future analysis.	Providing an opportunity for direct technical exchange between scientists and			None. Effort underway to explore feasibility of the consortium.			
	Toxics Policy/Prevention  Toxics Policy/Prevention	Improved understanding of PCB sources and fate in the environment to better inform PCB mitigation  Improved understanding of BMP effectiveness for removal of PCBs	N	Summarizing best practices for PCB track down, informing stakeholders of findings of ongoing studies in various source sectors, status and change in the environment as more data become available using EPA 1668 analytical methods.  Quantifying co-benefits for PCBs from most commonly used practices for nutrient and sediment reduction.	local PCB TMDLs and their overall reduction to improve conditions for fish and aquatic resources.  Helpful to identify and encourage use of BMPs that may provide PCB	Research and synthesis  Research and synthesis		Partially. Studies by academic partners, regulatory bodies dealing with PCB TMDLs. Very limited CBPO Resources.			
	Toxics Research	Generate further information on mercury in the watershed (water, sediment, fish tissue)	N	Create a story map to summarize impairments due to mercury, and communicate ongoing studies of mercury and fish in the watershed. Inventory data to help document status and trends of mercury. Need to inevntory and develop communication and education materials for data collected by the states as part of 305(b) reports.  Need to inform presence of	Determine whether further Chesapeake strategies are needed to supplement national efforts to reduce mercury	Synthesis and	Fish Habitat	Partially. States, DC, and EPA monitoring of mercury; USGS compilation of mercury and fish consumption advisories. (No CBPO resources)			
	Toxics Research	Assess the effects of toxic contaminants on fish and shell fish in tidal waters	N	certain contaminants of emerging concern in fish and shell fish; ongoing studies to inform health of particular fish species in urban environments; to inform fish consumption advisories  Report and communicate results of studies to improve	Understand the influence of contaminants in degrading the health, and contributing to mortality, of fish	Research,		Partially. USGS edc study, PA Susquehanna study, small mouth bass, USFWS Anacostia and Potomac studies, NOAA studies on fish kills. (No CBPO resources)			
	Toxics Research	Synthesize and communicate information to document fish health and wildlife conditions in the Bay watershed	N	understanding of the influence of contaminants and other factors degrading the health of fish, EDC compounds and effects on fish conditions, risk assessment of EDC compounds with occurrence of intersex and other fish health conditions.	Provide technical summary/ies to stakeholders of results for management decisions. Many of these summaries will be	Synthesis	Fish Habitat, oysters	Partially. USGS edc study, PA Susquehanna study, small mouth bass, USFWS Anacostia and Potomac studies, NOAA studies on fish kills. (No CBPO resources).	ו		
	Toxics Research	Document occurrence, concentrations, and sources of contaminants in different landscape settings	N	Inventory monitoring efforts by jurisdictions and groups for toxic contaminants and contaminants of emerging concern in surface waters, and identify any cooccurrence with nutrients and sediments in urban and agricultural settings	contaminants in landscape settings, and their relation to nutrients and sediment, to infer appropriate targeting of future resources for monitoring and	Data gathering and monitoring		monitoring of selected contaminants; USGS EDC study. NOAA National Status and Trends Program, academic research on contaminants of concern. USDA Forest Service investigations of contaminants in urban settings. (No CBP Resources) Upcoming STAC Workshop on contaminants			
	Toxics Research	Prioritize options for mitigation of toxic contaminants to help inform policy and prevention	N	Summarize further information about direct and co-benefits for mitigation of toxic contaminants and nutrient and sediment reductions, and compile quantitative assessments of toxic contaminant removal by BMPs. Further interaction between toxic contaminant workgroup and other source sector groups (i.e., agricultural, wastewater, and stormwater).	from nutrient and sediment BMPs in urban and agricultural settings.	Data gathering		Partially. Upcoming STAC Workshop on contaminants. Research by several academic institutions on reducing PCBs. Sediment remediation in Anacostia (DC).			

information needed on new issues and potential concerns for action by CBP. Issues include pollinator toxicity, microplastics, and unconventional oil and gas; expand to also inform state of the science for harmful algal bloom toxins, chloride Helpful to stay informed Partially. Trying to coordinate individual efforts from road salt, of emerging issues that perfluorinated compounds may have impacts in the by multiple organizations. (PFAS), and coal combustion Bay watershed in the Gather information on issues of emerging concern in PFAS, HABs, (Michelle check Toxics Research the watershed to prioritize and identify related tasks years ahead informational minutes). Needed to improve cost quantification in CAST, Data gathering CAST does not have updated and facilitate accurate and synthesis, Determine cost and timeline for updating CAST BMP state specific BMP cost understanding of funding potentially some 2017/2015 WIPs information beyond 2010. None. Previous analysis Is GIS Team looking at water quality assistance trends from Phase 5 (USGS). There are no new specific desired to resources targeted at Modrepresent Mon trend comparisons. trends in USGS has funded attainment Some divergences were commitments to report on geographically? identified between model river load/conc trends. STAR Water Quality Compare observed and expected trends in Will this data be predicted load-trend analysts work on made available Standards Attainment | watershed where differences were identified in patterns and monitoring understanding trend nvestigation was and Monitoring to partners? the SRS presentation Fish habitat patterns. High for GIT Partially. Non-tidal- Primarily States (CBP grants) with Tidal, (includes long term Federal support (USGS main channel, shallow water WQ Stds Attainment Stream gauging). Tidal-Adjust, sustain and grow monitoring programs & SAV) and Nontidal WQ States and CBP support. SAVsupport and watershed-Standards Attainment that are supporting water quality modeling and Monitoring Programs have bay wq-living resource Other - network | Fish habitat, oysters, blue States and CBP support and and Monitoring monitoring assessments academic support. assessment support Citizen science (CMC), remote se High for partnership The models, analyses that track change and inform Ongoing interest in best Standards Attainment | Improve understanding of source sector available understanding of Fish habitat, oysters, blue Fully. CBP Models, Sparrow targeting of BMPs are and Monitoring contributions to N,P,S loading Ongoing (Y, but N) load sources only as good as the data Analysis Partially. STAR Tidal Trends and Integrated trends team efforts. Past and new SAV Understanding bay response to watershed sytheses. Tidal trib syntheses Ongoing interest in journal articles in progress. restoration progress to management is core to Standards Attainment | Improve understanding of bay wq response to Responsible = STAR teams management our adaptive actions/climate influences | management framework. | Analysis Fish habitat, oysters, blue cr (CBPO funds). loads and BMPs and Monitoring New specific syntheses may be requested, new monitoring (Cit Sci or other high frequency data) results may reduce uncertainty to improve understanding of relationships Ongoing Ongoing interest in actual and forecast living resource Understanding bay responses in the ecosystem response to watershed Fish habitat, oysters, blue Partially. Limited work on that affect ecosystem management is core to Standards Attainment | improve understanding of bay living resources function, commercial and our adaptive crabs, vital habitats, healthy linking WQ to living resources and Monitoring to watershed and bay management effects recreational interests. management framework. Analysis habitats beyond SAV. proposed future work of a Liv Res Modeling WG, fish habitat assessment project case studies, oyster restoration site recovery tracking, synthesis of living resource changes in I Analysis results provides for understanding of progress in bay response to BMPs and directs Partially. (CBP Monitoring Fish habitat, oysters, blue team) Recognized questions **WQ** Indicator targeting of monitoring Standards Attainment Tracking/Explaining attainment/attainment needs/ongoing interest in and management crabs, vital habitats, healthy include how long it will take and Monitoring deficit patterns and trends habitats to meet the standards, etc. tracking wq progress resources Analysis Ongoing Standards Attainment Further analyses comparing expected trends in Bay and Monitoring water quality and watershed Standards Attainment and Monitoring WQ Criteria Attainment patterns summary Standards Attainment Update in patterns in WQ standards attainment DO, clarity/SAV and chlorophyll and Monitoring Standards Attainment Publish WQ Criteria Tech Addendum and Monitoring Standards Attainment | Implement new process to quantify trends in tidal WQ and Monitoring parameters Standards Attainment WQ results attained from 2 of 6 high flow events for mid point assessment and Monitoring Standards Attainment and Monitoring Monitor high flow events at Conowingo Standards Attainment and Monitoring Conowingo impacts on WQ monitoring plans Standards Attainment and Monitoring 125 sites of nutrient and sediment samples Is GIS Team assistance desired to update nontida website and/o WIP data dashboard? Will this data be made available Standards Attainment Update loads and Trends USGS to partners? and Monitoring Is GIS Team assistance desired to update nontida website and/or WIP data dashboard? Will this data b made available Standards Attainment USGS to update reporting/communicating of loads to and Monitoring to partners? Standards Attainment and Monitoring expand on BEI report for add'l monitoring needs Partially. STAR Integrated Monitoring Networks and Fish habitat, oysters, blue CAP support with Standards Attainment Incorporate Citizen Science Monitoring for WQ crabs, vital habitats, healthy chesapeake monitoring standards habitats and Monitoring cooperative. (CBP grant, ) Collaboration, cooperation and coordination with many river keeper organizations is ongoing and expanding. Citizen science monitoring ca WQ stds assessments have Monitoring Partially. CBP Monitorint Standards Attainment Team and States (CBP develop targeted shallow water monitoring strategy Targeting monitoring resoure Shifts in resources are incommonitoring grants) and Monitoring Fish habitat, Remote sensing options, Citizen science collaborations Standards Attainment Test watershed factors influencing WQ trends in tidal and Monitoring waters Standards Attainment and Monitoring Release report/communication of nitrogen sources Standards Attainment and Monitoring Compare observed and expected trends in watershed Standards Attainment Improve knowledge of sed and N sources and Monitoring Standards Attainment and Monitoring Use WQ data to assess PA's progress Standards Attainment and Monitoring WQ functions of wetlands Improve understanding of tidal water response to load Standards Attainment and Monitoring changes Standards Attainment and Monitoring Develop land cover dataset Standards Attainment and Monitoring Enhance watershed and SPARROW model Standards Attainment Examine Susquehanna reservoirs' impact on N and sed and Monitoring transport Standards Attainment Assess N and sed response to management practices and Monitoring Standards Attainment Incorporate BMP efficiencies and land cover/use and Monitoring Standards Attainment Conduct STAC peer reviews and Monitoring Standards Attainment and Monitoring Run scenarios and modeling tools Complete new analysis of GIS Team forest buffer cover when monitor forest buffer cover change using hi-rez Assistance new hi rez data becomes Analysis/Monito Water Quality, Land Use Direct Outcome progress ring available in 2020 and Land Policy Outcome Forest Buffers requested Complete analysis of forest and tree cover on developed GIS Team land and update this when monitor forest and tree cover change in Assistance new hi rez data becomes Analysis/Monito Water Quality, Land Use developed areas using hi-rez data Direct Outcome progress ring available in 2020 and Land Policy Outcome Tree Canopy requested Need continued assessments to determine if state-identified healthy waters and watersheds are still healthy and if additional waters and watersheds have become healthy. Lack of funding for increased Speaks directly to monitoring for unassessed outcome and being able waters. Current to determine whether or progress: Utilize TT PHWA to not healthy watersheds have remained healthy help assess current conditions and continued over time. Available data ncreased capacity for individual jurisdictional efforts to health where jurisdictions varies across monitor, assess, and determine watershed health Healthy Watersheds have identified this need urisdictions. Analysis None, HWGIT, Jurisdictions unknown Stream health Need more information on watershed condition, urban Speaks directly to Is GIS Team growth proximity/pressure, outcome and being able energy development trends, to determine whether or assistance Work with GIT to assess water demand forecasts, not healthy watersheds desired? Will Partially (Contractor and HW | contract deliverables and invasive species threats, have remained healthy GIS data be determine next steps (likely upstream activities, land over time and which are Current developed or progress: Utilize TT PHWA to additional GIT funding and HW most vulnerable and in ownership type, future assembled? Will Develop and apply tools or methods that integrate transportation need of management Land Use Options help assess vulnerable Staff support), ideally this this data be "tool/data" will be integrated infrastructure plans, climate responses. Available data various inputs to characterize watershed vulnerability to Evaluation, Land Use healthy watersheds (1 GIT made available future high-level risks including development and funding project with a wealth with other CBP related Methods and Metrics, change, sea level rise, and varies across Synthesis and climate related stressors. Healthy Watersheds other factors. jurisdictions. Analysis Climate of data) geospatial data to partners? Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be ing, HW Staff and TT made available to partners? (No eter Tango and Emily task proposed to be deleted) Healthy Watersheds

				It is becoming clearer that the current core team may							
				not have the technical skill to maintain and							
				independently update the final products (database and associated files). A training							
protected lands dataset - ha				workshop and/or additional phase of grant is necessary to ensure independence and	to determine whether or not healthy watersheds				Coordinate with CBP GIS team		
	Healthy Watersheds	Work with TT to train staff on how to utilize, update,		Thompson to begin this	over time. Available data varies across		Cross-GIT, Fish Habitat and Assessment, Stream Health, Protected Lands		and other related decision support tool efforts to identify how to integrate this data and information with other efforts	Himb	
	nealtry watersheds	and maintain the PHWA to inform progress toward goal.	IN .	transfer of knowledge  Could be coupled with	jurisdictions.	Training	Protected Lands	Partially	information with other errorts	High	
				training workshop. Additional funding and	Speaks directly to outcome and being able to determine whether or						
		Upon completion of TT PHWA GIT funding project work		the TT contractor may be needed to determine the	not healthy watersheds have remained healthy over time. Available data						
	Healthy Watersheds	with HW GIT staff to assess results and begin to determine appropriate tracking framework for potential HW sustainability indicator.	N	provide the information in	varies across	Analysis		Partially (HW GIT and CBP GIS team)	TBD	High	
				STAR can help to- communicate the- completion and availability-							
				of the dataset as well as help to coordinate additional analysis to meet							
				the needs of CBP teams. (I- am not sure what this would be, the Chesapeake-							
		Compile and publish bi - annual CBP Protected Lands-		Conservation Partnership- fulfills this role). Most- recent dataset was-		Synthesis, Analysis,					
	Healthy Watersheds	<del>dataset (Renee Thompson)</del>	¥	completed on Oct 2018		Outreach			This was a side of the date of the AAC		
		Determine a way to identify and track "marginally healthy" waters and watersheds. Shared data gap with		This is a continued data gap and not yet addressed by Stream Health or Healthy	_				This was an idetified need in MS however, time and resources have not allowed for in depth		
	Healthy Watersheds	Stream Health workgroup	N	Watersheds groups.  The information produced	Cross-GIT need	Analysis	Stream health  Healthy Watersheds,	None	exploration.	Low	
		Change in land use needed for informing other Outcomes, particularly Healthy Watersheds, Stream Health, Climate Resilience, Tree Canopy, Forest Buffers,		by this indicator directly inform many other	The "So What" of this Outcome are the impacts		Stream Health, Climate Resilience, Tree Canopy, Forest Buffers, Wetlands,	USGS, and CBP GIS will likely			
	Land Use Methods/Metrics	Wetlands, Fish Habitat, Oysters, Brook Trout, and Black	II	or implicitly. (listed as a		1	•	compute metrics - resources	CBP GIS Team	High	
				Need to determine what the exact metrics are for each							
				outcome. Input is need to inform customizaion and sensitivity to the metrics. It				CBP GIS and LUWG will need			
				1 '	To make LUMM relevant		Healthy Watersheds,	to work with individual workgroups and GITs to get input. It will be the			
		Engagement from individual outcome representatives to		those metics are needed.	and useful for informing other outcomes. Land use change is listed as a	Synthesis,	Stream Health, Climate Resilience, Tree Canopy, Forest Buffers, Wetlands,	responsibility of the WG or GIT to provide input. Resources are being put			
	Land Use Methods/Metrics Land Use Options	help relate LUMM and interprete what rates of change mean to individual outsomes.  None	N	of precision needed by these other outcomes.			Fish Habitat, Oysters, Brook Trout, and Black Duck.	1	CBP GIS Team, LUWG	High	_
	p. 2-10	Training and assistance with strategies on how to integrate social science into work (no action needed at this time)	No	2018 GIT Funding awarded to fund a Cross GIT effort with major support from the	knowledge and ability to	Synthesis	All Watershed Agreement Goals and Outcomes	Fully. CBP Communications, GIT 5	CBPO Staff, Management Board?	High	
		,		CBP Communications Office.							
	Citizen Stewardship		Ongoing	2018 GIT Funding awarded	Currently, there is not a	Synthesis	Water Quality, Stewardship	1	Practitioners, CBPO staff,	High	
		needed at this time)		to GIT 5 to hire contractor	tool to help stakeholders access and utilize the			Team, CBP Communications, Green Fin Studios	watershed advocacy groups		
				project also includes collaboration from CBP's Creative Team and							
	Citizen Stewardship			Communications Office.							
	·	Stewardship Data collection support every 3-5 years.	No	Stewardship Outcome data	Collection of data every 3- 5 years is needed to understand behavior	- Data Gathering	Water Quality, Stewardship	None		High	
				_	change trends and to						
				was developed, now need to do survey to update baseline score.							
	Citizen Stewardship		Might remove, can discuss	2018 GIT Funding awarded to fund a Cross GIT effort		Synthesis		Possible workshop with communications workgroup		High	
	Citizen Stewardship			with major support from the CBP Communications Office.							
		relations of human attitudes/behaviors toward	Might remove, can discuss				All Watershed Agreement Goals and Outcomes		CBPO staff, watershed advocacy groups	/ High	
	Citizen Stewardship	consumption, restoration and conservation.  Identify public access sites and potential effects from climate change (sea-level rise and flooding)	No	GIS Project	_	1	Climate resiliency goal, Stewardship	None	CBPO staff, state agencies, local governments	Medium	assistance
	Public Access	Diversity Indicator Target/Goal for 2025 using American			sites.	1					desired? Will
		Community Survey Data (Overlaying state Demographic		GIS Project	To determine progress on goal.	Monitoring and Analysis	CBPO staff	Partially, EPA; Chesapeake EJScreen	EPA, CBPO staff	High	Is GIS Team assistance
				GIS Project			CBPO staff	1	EPA, CBPO staff	High	assistance desired? Will GIS data be
		Community Survey Data (Overlaying state Demographic and Economic census block data over Chesapeake Bay Watershed) - is this where we left off with diversity SRS		GIS Project			CBPO staff	1	EPA, CBPO staff	High	assistance desired? Will GIS data be developed or assembled? Will this data be
	Diversity	Community Survey Data (Overlaying state Demographic and Economic census block data over Chesapeake Bay Watershed) - is this where we left off with diversity SRS		GIS Project			CBPO staff	1	EPA, CBPO staff	High	assistance desired? Will GIS data be developed or assembled? Will
	Diversity Student Environmental Literacy	Community Survey Data (Overlaying state Demographic and Economic census block data over Chesapeake Bay Watershed) - is this where we left off with diversity SRS outcome?  None			goal.	Analysis		EJScreen			assistance desired? Will GIS data be developed or assembled? Will this data be made available
	Student Environmental	Community Survey Data (Overlaying state Demographic and Economic census block data over Chesapeake Bay Watershed) - is this where we left off with diversity SRS outcome?	Ongoing	Information from this tool was used to determine local education agency (LEA; also	Determining the degree of preparedness to offer MWEEs in public schools	Analysis  Monitoring and	CBPO staff  Environmental Literacy Goa	Fully, Education workgroup, selected contractor	CBPO staff, state departments of education, local education agencies		assistance desired? Will GIS data be developed or assembled? Will this data be made available
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Jurisdictions need to improve method and protection and understanding understanding understanding understanding understanding understanding understanding understanding protection related goals.  Protecting new land requires conservation related goals.	Monitoring and Analysis  Analysis  Analysis  Analysis	CBPO staff  Chesapeake Conservation Partnership	EJScreen  Fully, Education workgroup, selected contractor  Fully, Education workgroup, contractor TBD  None  Partially, Chesapeake Conservancy, Chesapeake Conservation Partnership has done initial first steps in long list of steps  Fully, Chesapeake Conservation Partnership, GIT 4 Healthy Watersheds, contractor TBD	CBPO staff, state departments of education, local education agencies  CBPO staff, Chesapeake Conservation Partnership  CBPO staff, Chesapeake Conservation Partnership	High High High	assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS deta be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be made available to partners?
Stewardship	Environmental Literacy Planning  Protected Lands  Protected Lands  Protected Lands	Community Survey Data (Overlaying state Demographic and Economic census block data over Chesapeake Bay Watershed) - is this where we left off with diversity SRS outcome?  None  Percentage of Local Education Agencies (LEAs) that are "Well Prepared" or "Somewhat Prepared" to implement environmental education program(s).  Quantify and support BMP installation and restoration at schools to contribute directly to Bay restoration goals.  Expanded analysis and mapping of projected climate impacts  Filling the Cultural and Scenic Landscapes Documentation Gap  Development of improved methodology for data collection of Chesapeake Bay Protected Landscapes Documentation Gap  Chesapeake Watershed Conservation Finance Intensive  Chesapeake Watershed Conservation Finance Intensive  "Landscape Reporting Tool".	Ongoing  Ongoing  In progress (additional needs identified)  In progress	Information from this tool was used to determine local education agency (LEA; also referred to as school district) capacity to provide systemic environmental education. The Chesapeake Bay Program (CBP) first screened data to include only LEAs that have 25% or more of their geographic area within the Chesapeake Bay Watershed.  2018 GIT Funding awarded to hire a contractor to help develop a workplan implementation project for metric development and tracking of BMP installation and restoration at schools in the watershed.  Threats to existing protected lands and unprotected lands and unprotected high conservation value lands, such as development and climate change.  A recent National Forum on Landscape Conservation identified the enormous gap in documenting scenic and cultural landscapes. While these landscapes are often what many people value the most, the methods for identification and documenting and tracking toward indicator continues to be soley the responsibility of the CBP GIS team, GIT funding mechanism in both the group in documenting and tracking toward indicator continues to be soley the responsibility of the CBP GIS team, GIT funding mechanisms in both the public and private sphere—helping participant in generation funding mechanisms in both the public and private sphere—helping participant in generation and reporting indicator that would benefit from a consolidated approach.  This multi-day course will offer in the public and private sphere—helping participant in generation generation endougher that would benefit from a consolidated approach.	Determining the degree of preparedness to offer MWEEs in public schools across elementary, middle, and high grade bands enables the Education Workgroup and CBP leadership to determine workplan priorities.  Schools are often overlooked as viable options for BMP implementation, and even when BMPs are installed, this data is not often captured for CBP indicators and metrics.  A changing environment - precipitation regimes, storm patterns, and temperature changes will greatly affect the CCP Values (farms, forests, habitat, heritage, and health).  Support more effective and strategic landscape scale conservation in the Chesapeake watershed. This will build on exploratory analysis the Partnership has already conducted using 1.2 million Flickr images from the Watershed.  Support more effective and strategic landscape scale conservation in the Chesapeake watershed. Jurisdictions need to improve method and protection and understanding understanding understanding understanding understanding understanding understanding understanding protection related goals.  Protecting new land requires conservation related goals.	Monitoring and Analysis  Analysis  Analysis  Analysis	CBPO staff  Chesapeake Conservation Partnership	EJScreen  Fully, Education workgroup, selected contractor  Fully, Education workgroup, contractor TBD  None  Partially, Chesapeake Conservancy, Chesapeake Conservation Partnership has done initial first steps in long list of steps  Fully, Chesapeake Conservation Partnership, GIT 4 Healthy Watersheds, contractor TBD	CBPO staff, state departments of education, local education agencies  CBPO staff, Chesapeake Conservation Partnership  CBPO staff, Chesapeake Conservation Partnership	High High High	assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?
Stewardship	Environmental Literacy Planning  Protected Lands  Protected Lands  Protected Lands	Community Survey Data (Overlaying state Demographs and Economic census block data over Chesapeake Bay Watershed) - is this where we left off with diversity SRS outcome?  None  Percentage of Local Education Agencies (LEAs) that are "Well Prepared" or "Somewhat Prepared" to implement environmental education program(s).  Quantify and support BMP installation and restoration at schools to contribute directly to Bay restoration goals.  Expanded analysis and mapping of projected climate impacts  Filling the Cultural and Scenic Landscapes  Documentation Gap  Development of improved methodology for data collection of Chesapeake Bay Protected Lands indicator. There is a program of the program of	Ongoing  Ongoing  In progress (additional needs identified)  In progress	Information from this tool was used to determine local education agency (LEA; also referred to as school district) capacity to provide systemic environmental education. The Chesapeake Bay Program (CBP) first screened data to include only LEAs that have 25% or more of their geographic area within the Chesapeake Bay Watershed.  2018 GIT Funding awarded to hire a contractor to help develop a workplan implementation project for metric development and tracking of BMP installation and restoration at schools in the watershed.  Threats to existing protected lands and unprotected high conservation value lands, such as development and climate change.  A recent National Forum on Landscape Conservation identified the enormous gap in documenting scenic and cultural landscapes. While these landscapes are often what many people value the most may people value the what may people	Determining the degree of preparedness to offer MWEEs in public schools across elementary, middle, and high grade bands enables the Education Workgroup and CBP leadership to determine workplan priorities.  Schools are often overlooked as viable options for BMP implementation, and even when BMPs are installed, this data is not often captured for CBP indicators and metrics.  A changing environment - precipitation regimes, storm patterns, and temperature changes will greatly affect the CCP Values (farms, forests, habitat, heritage, and health).  Support more effective and strategic landscape scale conservation in the Chesapeake watershed. This will build on exploratory analysis the Partnership has already conducted using 1.2 million Flickr images from the Watershed.  Support more effective and strategic landscape scale conservation in the Chesapeake watershed. Jurisdictions need to improve method and protection and understanding understanding understanding understanding understanding understanding understanding understanding protection related goals.  Protecting new land requires on how welde to access how, windowative, and more complex sources of land protection funding from both public and private	Monitoring and Analysis  Analysis  Analysis  Analysis	CBPO staff  Chesapeake Conservation Partnership	EJScreen  Fully, Education workgroup, selected contractor  Fully, Education workgroup, contractor TBD  None  Partially, Chesapeake Conservancy, Chesapeake Conservation Partnership has done initial first steps in long list of steps  Fully, Chesapeake Conservation Partnership, GIT 4 Healthy Watersheds, contractor TBD	CBPO staff, state departments of education, local education agencies  CBPO staff, state agencies, local education agencies  CBPO staff, Chesapeake Conservation Partnership  CBPO staff, Chesapeake Conservation Partnership	High High High	assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?
Stewardship	Environmental Literacy Planning  Protected Lands  Protected Lands  Protected Lands	Community Survey Data (Overlaying State Demographic and Economic Census block data over Chesapeake Bay Watershed) - is this where we left off with diversity SRS outcome?  None  Percentage of Local Education Agencies (LEAs) that are "Well Prepared" or "Somewhat Prepared" to implement environmental education program(s).  Quantify and support BMP installation and restoration at schools to contribute directly to Bay restoration at schools to contribute directly to Bay restoration as schools to contribute directly to Bay restoration goals.  Expanded analysis and mapping of projected climate impacts  Filling the Cultural and Scenic Landscapes Documentation Gap  Development of improved methodology for data collection of Chesapeake Bay Protected Lands indicator. The Collection of Chesapeake Bay Protected Landscapes Documentation Gap  Development of improved methodology for data collection of Chesapeake Bay Protected Landscapes Documentation Gap  Chesapeake Watershed Conservation Finance Intensive Workshop  Chesapeake Watershed Conservation Finance Intensive Workshop  Chesapeake Watershed Conservation Finance Intensive Workshop	Ongoing  Ongoing  In progress (additional needs identified)  In progress	Information from this tool was used to determine local education agency (LEA; also referred to as school district) capacity to provide systemic environmental education. The Chesapeake Bay Program (CBP) first screened data to include only LEAs that have 25% or more of their geographic area within the Chesapeake Bay Watershed.  2018 GIT Funding awarded to hire a contractor to help develop a workplan implementation project for metric development and tracking of BMP installation and restoration at schools in the watershed.  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Monitoring and Analysis  Analysis  Analysis  Analysis	CBPO staff  Chesapeake Conservation Partnership	Fully, Education workgroup, selected contractor  Fully, Education workgroup, contractor TBD  None  Partially, Chesapeake Conservancy, Chesapeake Conservancy, Chesapeake Conservation Partnership has dist of steps  Fully, Chesapeake Conservation partnership, GIT 4 Healthy Watersheds, contractor TBD	CBPO staff, state departments of education, local education agencies  CBPO staff, Chesapeake Conservation Partnership  CBPO staff, Chesapeake Conservation Partnership	High High High	assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? Will GIS data be developed or assembled? Will this data be made available to partners?  Is GIS Team assistance desired? 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Processed London Conservation Conservation Conservation Partnership Level Conservation and Conservation Partnership Level Conservation Partnership Level Conservation and Level Conserv	Is GIS Team assistance desired? Will GIS data be developed or assembled? V this data be made availabl to partners?
Design and function of BMPs under new climate really: This is a pressing and ongoing research need of the CBP and all coastal watersheds and is in direct response to a PSC directive to the CBP to, "Develop a better understanding of the BMP responses, including new or other emerging BMPs, to climate change conditions". The number of high priority votes received will provide information	to partners?
BMPs under new climate reality. This is a pressing and ongoing research need of the CBP and all coastal watersheds and is in direct response to a PSC directive to the CBP to, "Develop a better understanding of the BMP responses, including new or other emerging BMPs, to climate change conditions". The number of high priority votes received high priority votes received will provide information	
Climate Resiliency Monitoring  Detailed statement of data/research needs for climate resilient BMPs and siting design  for this topic out of the total to CBP about how BMP number of votes was efficiencies are changing as a result of climate.  N 100%*.  downward N 100%*.  Monitoring  Water Quality, others	
The work here would be particularly useful for maintaining and supporting the current and future investment that all the CBP partners have in stormwater management facilities by sizing and designing them votes received for this topic out of the total number of regards to intensity, annual amounts, seasonal impacts, storm events and stormwater management  **N**  **N**  **The work here would be particularly useful for maintaining and supporting the current and future investment that all the CBP partners have in stormwater management facilities by sizing and designing them votes received for this topic correctly for future precipitation and flood monitoring, and health, flood reduction constorm events and stormwater management  **N**  **	
Climate Resiliency Monitoring  Detailed list of specific science/data needs for Citizen Monitoring  Climate  Cl	Is GIS Team assistance desired? Will GIS data be
The management implications of tidal wetland loss from future sea level rise and subsidence Monitoring  Better understanding of sea level rise and subsidence Monitoring  The management implications of tidal wetland loss from future sea level rise is important to Bay water quality and monitoring water quality  The number of high priority votes received for this topic out of the total number of votes was 44%*  The number of high priority votes received for this topic out of the total number of votes was 44%*  To Bay water quality and ecology monitoring water quality	developed or assembled? V this data be made availabl to partners?
Climate Resiliency Monitoring Protocol support and development of indicators Y Completed September 2018	
Social Science - human behavior - implications of the human response (positive and negative) to climate Climate Resiliency change, flooding, sea level rise as well as motivation and needs of communities to adapt  N The number of high priority votes received for this topic out of the total number of votes was 50%*  Research All	
The number of high priority votes received for this topic Out of the total number of	
Adaptation Changing climate conditions and their impacts on SAV N votes was 6%* Research SAV  The number of high priority votes received for this topic out of the total number of Adaptation invasive species N votes was 0%*  Research SAV  Vital Habitats, Healthy  Watersheds	
Better understanding of precipitation changes with regards to intensity, annual amounts, seasonal impacts, and extreme events on BMPS (maintenance, shelf life, Adaptation etc.)  Better understanding of precipitation changes with regards to intensity, annual amounts, seasonal impacts, storm events, and stormwater management Analysis Water Quality, others	
Climate Resiliency Green infrastructure performance including increased Adaptation Sediment due to climate change  The number of high priority votes received for this topic out of the total number of votes was 33%*  Research Water Quality, others	
Climate Resiliency Changing climate conditions and their impacts on Adaptation Wetlands  The number of high priority votes received for this topic out of the total number of wotes was 19%*  Research Wetlands  The number of high priority	
Climate Resiliency Adaptation  Climate impacts to key aquatic fish species abundance, Adaptation  Climate Resiliency Inferiority votes received for this topic out of the total number of votes was 13%*  *percent represents the number of high priority votes received for each topic out of the total number of votes  *percent represents the number of high priority votes received for each topic out of the total number of votes	es l