

BIENNIAL STRATEGY REVIEW SYSTEM

Chesapeake Bay Program



Environmental Literacy Planning and Metrics Logic Table

Long-term Target: Each participating Bay jurisdiction should develop a comprehensive and systemic approach to environmental literacy for all students in the region that includes policies, practices and voluntary metrics that support the environmental literacy Goals and Outcomes of this Agreement.

Two-year Target: Not established

KEY: Use the following colors to indicate whether a Metric and Expected Response have been identified.

Metric	
Expected Response	No timeline for progress for this action has been specified

Factor	Current Efforts	Gap	Actions (critical in bold)	Metrics	Expected Response and Application	Learn/Adapt
<i>What is impacting our ability to achieve our outcome?</i>	<i>What current efforts are addressing this factor?</i>	<i>What further efforts or information are needed to fully address this factor?</i>	<i>What actions are essential to achieve our outcome?</i>	<i>Do we have a measure of progress? How do we know if we have achieved the intended result?</i>	<i>How and when do we expect these actions to address the identified gap? How might that affect our work going forward?</i>	<i>What did we learn from taking this action? How will this lesson impact our work?</i>
State Education Agency (SEA) Leadership	<i>Encouraging high level support within state education agencies; Maintain adequate staffing to drive MWE</i>	Better engagement of SEA leaders; Dedicated staff support at SEA	2.1, 3.1, 3.2	No. Inventory environmental literacy positions at SEAs in the signatory states.	By regularly convening partners, collecting data through the Environmental Literacy Indicator Tool (ELIT), and identifying best practices to address disparities, we expect to strengthen high level	

	<i>implementation</i>				support for environmental literacy from state departments of education.	
Legislation and Policy	<i>MD Graduation Requirement; new PA standards; DC Healthy Schools Act; ELIT survey</i>	Collated information on districts to guide implementation; Additional state policies	2.1, 2.3, 3.2	No. Inventory environmental literacy legislation to determine what is in place and what is being implemented.	We expect to use the data collected from the ELIT survey to raise the visibility of successful models and identify/ implement policies that advance environmental education.	
School District Implementation	<i>Encourage the distribution of the ELIT survey to better understand school district needs</i>	School district environmental literacy plans; Participation in ELIT survey	1.1, 1.2, 1.3, 2.1, 2.2, 2.3	Yes. ELIT.	By analyzing the results of the ELIT survey, we expect to better understand the needs of school districts that are required for successful environmental literacy implementation. This will allow us to better focus training, technical assistance and financial assistance to advance local networks.	
Funding	<i>Identify existing state funding that could advance MWEE implementation; Coordinate existing funders; Attract new funders.</i>	Additional funding to support projects	1.2, 2.1, 3.2	No. Inventory funders to understand what is being funded and where.	Leveraging funding from existing state programs and new sources (like community foundations) will enable more school districts to reach the goal of implementing systemic MWEEs in each grade band and provide other critical elements for supporting district-wide environmental literacy. These funding sources may also aid in the long-term sustainability of	

					environmental literacy programs.	
State agency and partner coordination	<i>Maintain interagency state workgroups; Work with states towards network development</i>	Better collaboration; Established state plans; Diversify networks.	1.3, 2.1, 2.2, 3.1, 3.2	No. Work with contractor to regular assess network health.	By encouraging state networks and ensuring broad understanding of environmental literacy with key partners we expect increased collaboration between providers, education agencies, and the jurisdictions of the watershed.	
School community (teachers, principals, staff) awareness and readiness	<i>Develop, improve, and expand partnerships as well as opportunities for professional development to increase MWEE implementation across jurisdictions</i>	Teacher and administrator professional development	1.1, 1.2,, See also Student Outcome	No	We expect supporting school district efforts to embed environmental literacy into the curriculum and supporting professional development will encourage MWEE development and implementation throughout the watershed.	

ENVIRONMENTAL LITERACY: 2023-2024 PLANNING WORK PLAN ACTIONS

OUTCOME: Each participating Bay jurisdiction should develop a comprehensive and systemic approach to environmental literacy for all students in the region that includes policies, practices and voluntary metrics that support the environmental literacy Goals and Outcomes of this Agreement.

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline	Partner organizations	Lead Workgroup Member
Management Approach 1: Support school district efforts to embed locally appropriate environmental practices, content, and learning opportunities into curriculum and operations.							
1.1	Offer trainings and technical assistance focused on using the school district toolkit, state developed environmental literacy plan templates, and standards frameworks to create a continuum of environmental literacy opportunities for students.						
		Finalize and post the Environmental Literacy school district planning resource on Bay Backpack to support environmental literacy and MWEE planning, implementation, and evaluation.	NOAA	Region	Spring 2023		Elise Trelegan
		Plan and host the Environmental Literacy Forum to focus on district-level network and MWEE development	NOAA, CBT	Region	January 2023	CBF	Elise Trelegan, Shannon Sprague, Emily Stransky, Tom Ackerman
		Work with the states to promote the school district planning resource.	NOAA	Region	2023-24	State leads	Elise Trelegan
		Review lessons learned from the Network Leadership cohort and determine next steps for network trainings	NOAA, CBT	Region	2023	CBF	Elise Trelegan, Shannon Sprague, Karen Mullin, Tom Ackerman, Emily Stransky
		Place resources (Bay Backpack, MWEEs, etc) on DAEE with a link on the DE DOE science page	DAEE	DE	2022-2023	DOE, CR, DAEE, DNS	David Christopher
		Provide Environmental Literacy Planning and MWEE Awareness Training for school district personnel starting with CRSD, Appo. and Sussex Montessori	DESG	DE	Spring 2023	DOE, DESG, DNS, DAEE	David Christopher
		Work with 2 districts and one charter school to develop E-LIT plans	DESG	DE	2022-2023	DOE, DESG, DNS, DAEE, Stroud	David Christopher

		As a collective, PGC will gather and disseminate information to school district superintendents and environmental literacy points of contacts on trainings and technical assistance focused on the school district toolkit, state developed ELP templates, and standards frameworks. PGC will host resources online as appropriate (ex. Bay Backpack state page, PGC DNR webpage, member organization pages, etc). This effort may coincide with the PGC performance target under Action 3.2 in the Student Logic and Action Plan.	PGC	MD	2023-2024	PGC partner orgs and advisory members	Sandi Olek
		As a collective, PGC will inventory existing environmental literacy plans developed by school districts in Maryland. This inventory will be shared with PGC partner organizations and advisory members to be used as a resource when providing technical assistance to these school districts.	PGC	MD	2023	PGC partner orgs and advisory members	Sandi Olek
		PGC will define and identify examples of 'high quality' school district environmental literacy plans.	PGC	MD	2023-2024	PGC partner orgs and advisory members	Sandi Olek
		Develop an ELS curriculum framework that spans the new PA Science, Technology & Engineering, and Environmental Literacy and Sustainability Standards and related tools to support integrated learning in formal and non-formal spaces.	PDE	PA	2024	PA ACEE, PDE, DCNR, DEP, Stroud Water Research Center	Tamara Peffer, Demetrius Roberts, Stephon Fitzpatrick PDE/AG,
		Continue to adapt existing and present professional development at Act 45 and 48 levels, increase focus on blending GRS three pillars as a mechanism to align curriculum to new STEELS standards suite.	PA ELIT Network	PA	Ongoing	PA PDE, DCNR, DEP and Stroud Water Research Center, IU 13, CFB, PSU Extension, Conservation Districts, Commission on Ag Ed Excellence	Tamara Peffer, Demetrius Roberts; PDE; Steve Kerlin, SWRC; Jenn Fetter, PSU Ext.; Lauren Beal, IU 13, Stephon Fitzpatrick, Bert Myers

		Develop a Watershed Literacy Support website to connect analog and digital resources, including PA Facilitators' Guide, to enable adaption to hybrid or virtual MWEE implementation modes.	PDE, CBF, DCNR, DEP, PA Ext. Stroud	PA	January 2021	PA PDE, DCNR, DEP and Stroud Water Research Center, CFB, PSU Extension, Conservation Districts, Commission on Ag Ed Excellence	Tamara Pepper, PDE, Steve Kerlin, SWRC; Michelle Niedermeier, Bert Myers, PA SEAGRANT, PA ELIT Network Members
		Ensure state agencies and encourage partner groups to incorporate MWEEs into conferences and trainings (e.g. Dive Deeper, PAEE, PSTA, PA Library Association, ELO, Trout in the Classroom, Keystone Cold Water, Educators Ag Institute)	PA (PDE, DCNR, DEP), SWRC, CBF	PA	Ongoing	PA (PDE, DCNR, DEP), SWRC, CBF	Tamara Pepper, PDE, Steve Kerlin, (SWRC), PA ELIT Capacity Workgroup Members
		Conduct training for division designated science leaders on the construction of division level environmental literacy plan to include MWEEs.	VDOE	VA	10/1/2023 and ongoing	VRUEC, NOAA	Petersen
		Conduct division/school and nonformal leader collaborative professional development on creating and implementing environmental literacy plans and MWEE instruction aligned to state standards.	VRUEC, VAAE	VA	Nov 2024	VDOE, VSELA, State agency partners, EE organizations	Lutzow-Felling & Myrick
1.2	Support the development of local networks to advance youth environmental literacy programs and leadership opportunities both in and out-of-school with an emphasis on drawing in new community partners that understand local priorities and represent the diversity of the communities being served.						
		Support and compile lessons learned from the Outdoor Learning Network Initiative (OLNI) to better articulate the barriers facing districts in underrepresented areas and the opportunities to strengthen local networks to advance environmental literacy. Share learning with funding community.	CBT, CBF, NOAA	Region	2023	WV, PA, VA, and MD OLNI partners	Emily Stransky, Tom Ackerman, Elise Trelegan
		Work with state networks to expand, diversify, and train network weavers and increase adoption of MWEEs in districts (Regional Outdoor Learning Network (ROLN))	NOAA, CBT	Region	2024	MD, VA, DE, PA networks	Shannon Sprague, Emily Stransky, Elise Trelegan

		Engage members of the Coalition for Equitable Outdoor Education to explore potential opportunities for collaboration	OSSE	DC	2023	DOEE	Grace Manubay
		Identify and hire a DAEE Network Coordinator that will actively participate in and ensure effective communication throughout the DE environmental literacy aligned networks	DAEE	DE	2022-2023		Todd Klawinski
		Work with the DE E-LIT and CTE programming leads to support network development and ensure that partners (including new and diverse partners) are engaged meaningfully in the development of CTE competencies, standards and MS MWEE Career Awareness/CTE programming (Connecting to CTE BWET Project and the team/network that support this)	DOE	DE	2022-2023	DOE	Denise Purnell-Cuff
		Continue to develop a DE E-LIT Community of Practice to support E-Lit Initiatives	DESG	DE	ongoing	DOE, DNS, DESG	David Christopher
		Continue Caesar Rodney model of community leadership tours bringing together formal & non-formal stakeholders to raise awareness of environmental literacy programming, it's impact and opportunities for partnerships	DOE	DE	ongoing	DAEE	Todd Klawinski
		Through it's participation in the MD Environmental Literacy Advisory Network (MELAN), funded in part by NOAA B-WET, PGC will work to support the development of local environmental literacy networks. Deliverables for Year 1 of the MELAN includes using equity tools and assessments to recruit diverse voices into the network.	PGC	MD	2023	PGC partner orgs and advisory members, MAEOE	Sandi Olek

		At the top of Steering Committee meetings, members of PGC will share relevant updates regarding existing network efforts (ex. Regional Outdoor Learning Network (ROLN), the Mid-Atlantic Climate Change Education network, etc.) in order to identify opportunities to collaborate on overlapping priorities and to draw in a diverse array of community partners.	PGC	MD	2023-2024	PGC partner orgs and advisory members, MD DNR, MAEOE	Coreen Weilminster (MACCE), Laura Collard/ Olivia Wisner/ Tara Drennan (ROLN)
		Provide ongoing training and technical assistance to schools, afterschool, NGO, and nonformal education/resource organizations. Training will be tiered to raise awareness from basic knowledge to more advanced content to support the district as they develop MWEE-framed curriculum framework, instructional units, materials, and program criteria in the areas of environment and ecology, agriculture and society, sustainability, and STEM.	PA ELIT Network	PA	Ongoing	PA PDE, DCNR, DEP and Stroud Water Research Center, CFB, PSU Extension, Conservation Districts, Commission on Ag Ed Excellence	Tamara Peffer, Demetrius Roberts, Bert Myers, Stephon Fitzpatrick, PDE; Steve Kerlin, Stroud; ELIT Cap Leadership team members
1.3	Increase opportunities for school districts and their partners to connect on school district level environmental literacy planning including network development and sustainability.						
		Complete the 2023 revision of the state Environmental Literacy Plan	OSSE	DC	2023	DOEE, DGS, DCPS	Grace Manubay
		Connect Delaware schools and teachers to the new DE E-Lit Community of Practice	DAEE	DE	Ongoing	DOE, CR, DAEE, DNS, DSFME	David Christopher
		Continue DFSME and DAEE collaboration on webinar series.	DAEE	DE	ongoing	DFSME	Randy Guschl and Ashley Melvin
		Through it's participation in the MD Environmental Literacy Advisory Network (MELAN), PGC will work to connect school districts and their partners by recruiting and deploying network influencers and weavers. The number of influencers and weavers is a deliverable tracked by the NOAA B-WET grant that supports MELAN.	PGC	MD	2024	PGC partner orgs and advisory members, MAEOE	Sandi Olek

		Develop Regional Hub System to communicate about statewide ELIT initiatives and provide regional-focused MWEE training and support for administrators.	PA ELIT Network	PA	Initial hub formation - June 2023;	PDE, PA STEM, PA ELIT, SWRC, PA Seagrant	
		Provide platforms that foster collaboration between division level leaders and regional informal environmental partners	VRUEC, VAEE	VA	Nov 2024	VDOE	Myrick & Lutzow-Felling
Management Approach 2: Support, diversify, and expand state networks to support the Environmental Literacy Goal.							
2.1	Use the Regional Outdoor Learning network and associated state networks to increase collaboration, share best practices, and refine and advance shared priorities, including promoting diversity, equity, inclusion, and justice principles with partner organizations.						
		Work with state networks to refine network vision and priorities, and strengthen and scale their networks using targeted support from network development consultants	NOAA, CBT	Region	2024	Local Concepts, state networks	Shannon Sprague, Elise Trelegan, Bart Merrick, Emily Stransky
		Strategically manage B-WET state capacity building grants to support state networks	NOAA	Region	2023	B-WET grantees, state networks	Elise Trelegan, Shannon Sprague, Bart Merrick
		Fund the organizational structure of state networks including network designers and weavers to build their capacity to advance environmental literacy.	CBT				Emily Stransky
		Engage school districts in the DE E-LIT Community of Practice	DAEE	Statewide	2022-2023	DOE, DAEE, DNS, DAEE	David Christopher
		Hold the DAEE Conference to build network opportunities, share practices and engage the broader DE environmental literacy community	DAEE	Statewide	Winter/Spring 2023	DAEE	David Christopher
		Engage and expand DAEE Committees such as Communities in Nature Committee, DEI Community, and Outdoor Learning Network	DAEE	Statewide	Ongoing	DAEE	David Christopher
		Through it's participation in the MD Environmental Literacy Advisory Network (MELAN), PGC will provide stipends to network weavers in order equitably support a diverse array of organizations working to advance the Environmental Literacy Goal.	PGC	MD	2023-2024	PGC partner orgs and advisory members	

		Through it's participation in the MD Environmental Literacy Advisory Network (MELAN), PGC will work to engage 3 non-traditional orgnizations in the state network. This internal outcome will be tracked by the NOAA B-WET grant that supports MELAN.	PGC	MD	2023-2024	PGC partner orgs and advisory members	
		As part of the MD Environmental Literacy Network (MELAN), PGC will explore funding avenues outside of the NOAA B-WET/ CBT in order to make efforts to promote DEIJ principles with partner organizations a sustainable effort.	PGC	MD	2023-2024	PGC partner orgs and advisory members	
		Compile and disseminate MWEE models that encourage district-provider partnerships such as the PA OLNi networks using resources such as MWEE repositories on PDE SAS and CBF resources	PDE, SWRC, DEP, DCNR, PSU Ext., PA Seagrant	PA	Annual Update, FYE	PDE, SWRC, PA Seagrant; PA ELIT Leadership Team	Tamara Peffer, Demetrius RobertsPDE; Jenn Fetter, PSU Ext, Bert Myers, DEP, Steve Kerlin, Stroud; Stephon Fitzpatrick, PDE/AG; Michelle Niedermeier, PA Seagrant
		Initiate the development of a statewide green careers providers network and develop information and tools for students about career paths: (1) Promote the PA Careers jobs portal to increase its use. (2) Develop/Assemble a PA-specific GreenAg Careers Guide and make it available to schools, youth career development programs, and others.	PDE, AG, DEP	PA	Jan 2024	AG, PDE, PA Extenstion, DEP, DEPOEJ, DCNR	Laura Friderici, Tamara Peffer, Demetrius Roberts, PDE; Jonathan Geyer, Stephon Fitzpatrick, Bert Myers, AG; CTE Program Staff
		Continue to develop and strengthen the Virginia state network and develop a vision as well as short and long term goals that will impact future work towards meeting CBP workgroup goals and Virginia environmental priorities and needs.	VRUEC, VAEE	Virtual & in-person	On-going	State agencies, EE organizations	Lutzow-Felling & Myrick

2.2	Increase the programmatic, racial, and cultural diversity of state networks and ensure an inclusive environment for all partners.					
	Work with Local Concepts to develop a recruitment strategy for network weavers that prioritizes DEIJ principles	NOAA, CBT	Region	2023		Shannon Sprague, Emily Stransky, Elise Trelegan
	Work with the CBP Diversity Workgroup to identify an appropriate DEIJ training for workgroup members and/or state network design teams.	NOAA, NPS/EPA (GIT 5)	Region	2023		Shannon Sprague, Elise Trelegan, Bart Merrick
	Increase community of practice membership with a focus on underserved communities. This can be partially achieved through a new position if funded by the network grant.	DAEE	Statewide	Ongoing	DOE, DNS	David Christopher
	Leverage NWF Sacred Grounds initiative to engage new faith-based communities in environmental literacy initiative.	DNS		2022-2023		David Pragoff
	Through its participation in the MD Environmental Literacy Advisory Network (MELAN), PGC will work to increase the diversity of the state network through both internal and external outcomes tracked by the NOAA B-WET grant (ex. 3 non-traditional organizations/ new voices represented in the network).	PGC	MD	2023-2024	PGC partner orgs and advisory members	Sandi Olek
	Expand the diversity of PGC by adding new partner organizations and/ or advisory members	PGC	MD	End of 2024	PGC partner orgs and advisory members	Sandi Olek

		Fulfill the PDE responsibilities under the Environmental Education Act, including ensuring all students have access to and participate in meaningful environmental literacy experiences, whether in formal or nonformal settings, serving as the PDE liaison to the Advisory Council on Environmental Education, promoting the components of the Pennsylvania Environmental Literacy Plan, meeting the requirements of 22 Pa. Code Chapter 4 and serving on the Pennsylvania State Outdoor Recreation Plan, as assigned by the Secretary of Education.	PDE	PA		DCNR, PDE, DEP, PDA, PA F&B, PAGC	Tamara Peffer, Bert Myers
		Establish a mentor program and support materials for teachers and administrators in underserved communities that use the expertise of PA MWEE and PA Pathways to Green Schools award recipients to guide new teachers through and over obstacles as identified in the PA EE Capacity and CBP ELIT surveys.	PDE, DCNR, DEP, PAEE, PA ACEE	PA	Spring 2024	PDE, DEP, DCNR, PDA, DCED, SWRC, PA Fish & Boat, PA Game Commission, PA Librarian Association, PA Conservation Districts Assoc, Stewards, PAEE, PA ELIT Capacity Building Network, PA Green and HEalthy Schools Partnership	Tamara Peffer, PDE; Bert Myers, DEP; Steve Kerlin, Stroud; Michelle Niedermeier, PA Seagrant; Donnan Stoicovy, PA ACEE; Michelle Niccarati-Chapkis, PAGHS
		Provide leadership and technical assistance to schools in developing the EEP planned instruction and program criteria through the new STEELS Standards Suite ensuring focus on Agricultural Education, and School support services such as 21st Century Programs, Migrant Education PA Smart/STEM or other ESSA Support programs.	PDE	PA	Ongoing	PDE/DEP/DCNR /PAACEE, PDA	Tamara Peffer, Demetrius Roberts, PDE; Stephon Fitzpatrick, PDE/AG

		Through combined efforts for the NOAA PA Environmental Literacy Capacity Building Task Force and PDE/DCNR/DEP EJ, work to address the low state-wide percentage of PA LEA participation in the NOAA Chesapeake B-WET grants and implementation of MWEEs, through increased outreach designed to build awareness and skills (e.g. communications, introductory sessions, increased ambassador and facilitator networks, and professional development).	PA DEP/ PDE/ DCNR	PA	Ongoing	PDE, PDA, DEP, DCNR. CBF. Stroud, etc	Tamara Peffer, PDE Bert Myers PA DEP Stroud
		Continue collaboration between DEP Environmental Education and Information Center with the DEP Office of Environmental Justice to insure all materials reflect equitable environmental education materials and programming, including encouraging use of the EJ identification tool for data driven decision making.	DEP, PDE	PA	Ongoing		Bert Myers, Justin Dula (DEP), Tamara Peffer (PDE)
		Increase partners and organizations represented in the Virginia Network to represent diverse stakeholders and regions/watersheds across the Commonwealth.	VRUEC, VAEE	VA	On-going	State agencies, EE organizations	Lutzow-Felling & Myrick
2.3	Collect, analyze, and distribute data to inform the strategic and equitable delivery of environmental literacy programming across and within school districts.						
		Analyze and communicate data from the 2022 ELIT survey	NOAA	Region		State DOEs	Shannon Sprague
		Support the development of an evidence-based tool to identify high quality instructional programs that support MWEEs	NOAA	Region		State DOEs	Shannon Sprague
		Conduct gap analysis/needs assessment of outdoor learning in public schools in DC	OSSE	DC	2023		Grace Manubay
		Use the network created by the School District Capacity Building grant to collect data	DOE	DE	Ongoing	CR, DAEE, SeaGrant, DNS	Tonyea Mead

		Create E-LIT update to distribute various education newsletters. This update will be created through input of the Delaware E-Lit Community of practice and sent to newsletters such as DSFME, MAMEA, DAEE and more.	DAEE	DE	Ongoing	DOE, DSFME, DESG	David Christopher
		As a collective, PGC will digest the results of the Environmental Literacy Indicator Tool (ELIT) survey into artifacts that can be used by school districts.	PGC	MD	2023-2024	PGC partner orgs and advisory members	Sandi Olek
		Through it's participation in MELAN, PGC will distribute the artifacts describing the results of the ELIT survey to school districts through network weavers/influencers as appropriate.	PGC	MD	2023-2024	PGC partner orgs and advisory members	Sandi Olek
		As a collective, PGC will share the results of the Environmental Literacy Indicator Tool (ELIT) survey with the member organizations of PGC including the visualization tool developed by CBT. This can be done by email, web-site and funding grant oppotunties	PGC	MD	2023-2024	CBT	Sandi Olek
		Administer, summarize, and distribute the PA Environmental Education Capacity Survey (Status and Needs) focused on formal and non formal educators to supplement the school district data from ELIT; share results with staff, executive, and cabinet-level personnel and include in PA ACEE biennial report.	PDE, DEP, DCNR, SWRC, PA Seagrant, Millersville University	PA	June 2024	PDE, SWRC, PA Seagrant, Millersville University	Tamara Peffer, PDE; Bert Myers, DEP; Steve Kerlin, Stroud; Michelle Niedermeier, PA Seagrant; Nanette Marcum-Dietrich
		Administer, summarize, and distribute the NOAA ELIT survey to all PA LEAs to determine environmental literacy preparedness across the state; share results with staff, executive, and cabinet level personnel and include in PA ACEE biennial report	PDE, DCNR, DEP, PAEE	PA	June 2024	PDE, SWRC, PA Seagrant, Millersville University	Tamara Peffer, PDE; Bert Myers, DEP; Steve Kerlin, Stroud; Michelle Niedermeier, PA Seagrant; Nanette Marcum-Dietrich

		Utilizing NOAA BWET, PA EE Capacity Surveys, and input from PA LEAs and professional organizations, determine gaps in policy, funding, and other programmatic areas that are perceived as obstacles, work with LEA trinity (teacher, admin, facilities) to help bridge gaps through systemic LEA level ELP development, including integrated curriculum and inclusion of outdoor field experiences as recommended in the PA Env Lit Plan.	PA (PDE, DCNR, DEP), SWRC, CBF	PA	ongoing	PA (PDE, DCNR, DEP), SWRC, CBF	Tamara Pepper, PDE, Steve Kerlin, Bert Myers, (SWRC), PA ELIT Capacity Workgroup Members
		Promote use of existing geospatial and predictive modeling tools by LEA leadership as a systemic level decision making tool informing LEA Environmental Literacy Plan and by formal and non formal educators as decision making tool to be used during the formation of their MWEE/ELM based instructional units and as a instructional technology tool to that supports data driven, learner-centered, place-based classroom practice and field explorations.	PDE	PA	Ongoing	DEP, DCNR, SWRC, IU 13, WC SD	Tamara Pepper, PDE; Michelle Niedermeier, PASG, Steve Kerlin, SWRC
		Advertise and distribute data from the ELit tool in order to identify areas and divisions of need in the Commonwealth.	VDOE	VA	Annual	VRUEC, VAEE	Petersen

Management Approach 3: Provide opportunities for cross-state collaboration and partner engagement to ensure adequate understanding and support for the strategic and equitable delivery of environmental literacy programming in the Mid-Atlantic.

3.1	Regularly convene state and regional environmental literacy partners around key issues and evidence-based best practices through the Mid-Atlantic Environmental Literacy Network, the CBP Education Workgroup, and the Workforce Action Team.						
		Support the development of the CBP Workforce Action Team, including ensuring alignment with the Diversity Workgroup, Diversity Action Team, and MACCE climate workforce team	NOAA/NPS	Region	Ongoing		Britt Slattery, Bart Merrick, Maggie Bennett, Shannon Sprague
		Support the development of a landscape assessment that describes current conditions, gaps/opportunities, etc. for ensuring a diverse workforce to support CBP outcomes	NOAA/NPS	Region	Summer 2023-2024		Britt Slattery, Bart Merrick, Maggie Bennett, Shannon Sprague

		Plan and host the Environmental Literacy Summit with an emphasis on workforce and sustainable schools issues	NOAA/MD	Region	Summer 2023		Shannon Sprague, Sandi Olek
		Support bi-annual meetings of the full Chesapeake Bay Education Workgroup	NOAA	Region	Ongoing		Shannon Sprague, Elise Trelegan
		Participate in monthly inter-state environmental education meetings with state education department contacts	OSSE	DC/Regional	Ongoing		Grace Manubay
		Host an Environmental Literacy meeting for the Environmental Literacy Community of Practice focusing on the basics of E-LIT and MWEES	DESG	DE	2022-2023	DOE, DSFME, DE CoP	David Christopher
		Share information from the Environmental Literacy Forum at NCTC about the strategic/equitable delivery of environmental literacy programming with other DE E-Lit members.	DESG	DE	2022-2023	DOE, DSFME, DE CoP	David Christopher
		Hold quarterly meetings of the E-LIT Community of Practice	DAEE	DE	2022-2023	DNS, DOE	David Christopher
		Create draft guidelines for Outdoor Education safety strategies	DOE, CoP	DE	2023	DOE	Tonyea Mead
		PGC partner organizations and advisory members who participate in the Environmental Literacy Forum at NCTC will share information about the strategic/equitable delivery of environmental literacy programming at the Forum and/or share lessons learned at the forum with other PGC members.	PGC	MD	2023-2024	PGC partner orgs and advisory members	Sandi Olek

		Continue to hold semi-annual; PA Advisory Council on EE and PA ELIT stakeholder meetings; arrange for these to be held in alternating quarters so information flow is continual.	PDE, DCNR, DEP, PAEE, PA ACEE	PA	ongoing	PDE, DEP, DCNR, PDA, DCED, SWRC, PA Fish & Boat, PA Game Commission, , PA Conservation Districts Assoc, PAEE, PA ELIT Capacity Building Network, PA Green and Healthy Schools Partnership	Tamara Pepper, PDE; Bert Myers, DEP; Steve Kerlin, Stroud; Michelle Niedermeier, PA Seagrant; Donnan Stoicovy, PA ACEE; Michelle Niccarati-Chapkis, PAGHS
		Administer, summarize, and distribute the PA Environmental Education Capacity Survey (Status and Needs) focused on formal and non formal educators to supplement the school district data from ELIT; share results with staff, executive, and cabinet level personnel and include in PA ACEE biennial report.	PDE, DCNR, DEP, PAEE				
		VA network communicate with networks from other CB jurisdictions	VRUEC, VAEE	Virtual & in-person	As indicated by CBP Workgroup	Virginia CBP education workgroup	Lutzow-Felling & Myrick
		VA network to convene on a regular basis to engage in discussion on key issues and best practices that will inform environmental literacy within the state of Virginia.	VRUEC, VAEE	VA	Bi-annual	State natural resource agencies, EE organizations	Lutzow-Felling & Myrick
3.2	Strategically communicate with partners and stakeholders to promote the policies, programs, and resources necessary to support the Environmental Literacy Goal.						

		Work with the Pisces Foundation to connect funders with network weavers to discuss opportunities to sustainably support local environmental education	NOAA, CBT, CBF	Region	2023		Shannon Sprague, Emily Stransky, Tom Ackerman
		Provide major partners, including the Chesapeake Bay Commission, with an annual update on the status, gaps, and opportunities related to the environmental literacy goal	NOAA, CBT, CBF	Region	2023, 2024		Shannon Sprague, Emily Stransky, Tom Ackerman
		Conduct ongoing meetings with the Environmental Literacy Advisory Committee	OSSE	DC	Ongoing		Grace Manubay
		Hold quarterly meetings of the E-LIT Community of Practice	DAEE	DE	2022-2023	DNS, DOE	David Christopher
		Develop an Environmental Literacy link or section of DOE website that connects to CTE work	DOE	DE	ongoing	DOE	DOE
		Create draft guidelines for Outdoor Education safety strategies	DOE, CoP	DE	ongoing	DOE	DOE
		Members of PGC will continue participation in existing network efforts (ex. ROLN, MAEOE, ELAN, MACCE) in order to promote the policies, programs, and resources necessary to support shared priorities (ex. Environmental Literacy Goal, climate education). Participating PGC members will share out what they've learned from partners during steering committee meetings.	PGC	MD	2023-2024	PGC partner orgs and advisory members	Sandi Olek
		As a collective, PGC will create and share an artifact that outlines the role of PGC and its relationship to the MD Environmental Literacy Advisory Network (MELAN) and host it on an appropriate online platform so that partners can access it.	PGC	MD	2023-2024	PGC partner orgs and advisory members	Sandi Olek

		Convene PA CBWA work group and state agency management group liaisons twice annually to continue informing and engaging them regarding environmental literacy progress, gaps/needs and potential solutions; and to garner their engagement on appropriate statewide actions to advance ELit and related efforts.	PDE/DEP/AG/D CNR	PA	Ongoing	PDE/DEP/AG/D CNR/CBF/NOA A	Peffer, Myers, Kemmerer
		Revise and Distribute PA Environmental Literacy Plan to support new STEELS Standards emphasizing the new Environmental Literacy and Sustainability Domain, environmental literacy and environmental justice awareness to ensure cultural competency and equity.	PDE, PA ACEE, DEP EJ AND EE OFFICE	PA	June 2024	PDE, DEP, DCNR, CBF, PA ACEE	Tamara Peffer, Bert Myers, Donnan Stoivocy
		Highlight PA success and outcomes related to Environmental Literacy expansion through State or National Academic Conference/Journal presentation	PA (PDE, DCNR, DEP), SWRC, CBF, Millersville University, other systemic B WET grant PI's	PA	Ongoing	PA (PDE, DCNR, DEP), SWRC, CBF	Tamara Peffer, PDE, Steve Kerlin, (SWRC), Michelle Niedermeier, PA Seagrant; PA ELIT Capacity Workgroup Members
		Through combined efforts for the NOAA PA Environmental Literacy Capacity Building Task Force and PDE/DCNR/DEP EJ, work to address the low state-wide percentage of PA LEA participation in the NOAA Chesapeake B-WET grants and implementation of MWEEs, through increased outreach designed to build awareness and skills (e.g. communications, introductory sessions, increased ambassador and facilitator networks, and professional development).	PA DEP/ PDE/ DCNR	PA	Ongoing	PDE, PDA, DEP, DCNR. CBF. Stroud, etc	Tamara Peffer, PDE Bert Myers PA DEP Stroud
		Communicate opportunities, programs, and policies to formal educators and leaders through VDOE distribution platforms such as Science Update and Teacher Direct.	VDOE	Email; distribution platforms	Monthly	VRUEC, VAEE, VA state agencies, env organizations	Petersen

		Monthly virtual communications among EE organization members	VAEE, VRUEC, DCR Environmental Literacy Specialists	Email distribution platforms	Monthly	VA state agencies, env organizations	Lutzow-Felling & Myrick
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