



## Logic and Action Plan: Post-Quarterly Progress Meeting

### [Environmental Literacy Planning Outcome] – [2021-2022]

**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

Factor	Current Efforts	Gap	Actions	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 help fill this gap) to achieve our outcome?</i>	<i>What will we measure or observe to determine progress in filling identified gap?</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	Attempting to gain support for focusing PSC agenda on formal education at least once every 2 years; Encouraging high level support within state education agencies; Maintain adequate staffing to drive MWEE implementation	Better engagement of SEA leaders; Dedicated staff support at SEA	3.1, 2.1, 2.2	No	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 support for environmental literacy from state departments of education.	

Legislation and Policy	MD Graduation Requirement; DC Healthy Schools Act; ELIT survey	Collated information on districts to guide implementation; Additional state policies	2.1, 3.2, 3.3	No	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	Encourage the distribution of the ELIT survey to better understand school district needs	School district environmental literacy plans; Participation in ELIT survey	1.1, 1.2, 2.1, 2.2	Yes, the Environmental Literacy Indicator Tool (ELIT) Survey	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 focus technical assistance and provide adequate financial assistance.
Funding	Identify existing state funding that could advance MWEE implementation	Additional funding to support projects	1.2, 2.2, 3.2, 3.3	No	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	Maintains interagency state workgroups; Work with states towards cross-agency “Collective Impact” efforts that include appropriate leadership and organization, metrics, and support	Better collaboration; Established state plans	1.3, 3.1, 3.3	No	By encouraging local 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	Develop, improve, and expand partnerships as well as opportunities for professional development to increase MWEE implementation across jurisdictions	Teacher and administrator professional development	1.1, 1.2, 1.3, 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.	

**ACTIONS – [2021-2022]**

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
<b>Management Approach 1: Support school district efforts to embed locally appropriate environmental practices, content, and learning opportunities into curriculum and operations.</b>					
<b>1.1</b>	Create and disseminate materials to support school district efforts to develop K-12 environmental literacy frameworks that document in which grades MWEEs and other environmental literacy programming occurs	Create and distribute tools to support the development of school district planning documents (e.g. environmental literacy frameworks, sustainability plans, curriculum integration tools).	NOAA	Regional	
		Develop a school district section on Bay Backpack that includes easy access to resources they need to develop district level planning documents	CBP web team	Regional	
		Encourage divisions to create Environmental Literacy Plans by creating and sharing template.	State DOEs	Multiple States	Jun 2021 (VA/PA); Dec 2022 (MD)
		Share the completed Virginia Environmental Literacy Plan Template with other states in the watershed to use as a model. Share on the NAAEE website for broader use.	VAEE	VA	Feb 2021
		Utilize state agency email distribution lists to send quarterly emails to personnel within school divisions and among nonformal educators. This distribution list will serve as a conduit to provide technical support and highlight specific tools to help with the development of MWEEs and environmental literacy frameworks.	VDOE	VA	Ongoing
		Update current MWEE exemplars from VDOE and add these to VRUEC, VAEE, and Bay	VDOE, VRUEC, VAEE	VA	Ongoing

**ACTIONS – [2021-2022]**

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		Backpack websites to reflect proposed 2018 Science Standards of Learning.			
		Request district/grade level instructional plans that integrate all components of MWEE to serve as exemplars for distribution and posting on environmental education websites.	VDOE	VA	Ongoing
		Develop an instructional framework to guide implementation of the MD Environmental Literacy Standards.	MSDE, MD PGC	MD	Dec 2021
		Work with partners to develop and implement MWEE professional development and support regional environmental literacy planning	DESG, DDOE	DE	ongoing
		Create and distribute WV specific models of environmental literacy frameworks, sustainability plans, curriculum integration tools, including tools developed using the lessons learned from OLN school districts.	WV OLN	WV E. Panhandle	Dec 2021
		Expand, revise, and distribute MWEE and STEM tool kits, including classroom and teacher education resources with student-driven EE, Ag, and STEM focus.	PDE, CBF, SWRC	PA	Dec 2021
		Develop an EE curriculum framework and related tools to support EE learning in formal and non-formal spaces.	PDE	PA	2022 (need to wait until new standards are passed)
<b>1.2</b>	Provide technical and financial assistance to support school districts with the integration and	Convene funders to discuss and encourage increased coordination and the replication of successful environmental literacy models	NOAA, CBT	Region	Mar 2021

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	implementation of MWEEs and sustainable schools into appropriate grade-level curriculum.	(e.g., the development of school district level planning documents and the Outdoor Learning Network Initiative (OLNI)).				
			Use NOAA B-WET and Chesapeake Bay Trust to encourage and support the development of systemic MWEEs and related district plans.	NOAA	Region	2020; 2021
			Establish a subcommittee within VRUEC to create a vetting process for determining state MWEE exemplars that would align to the needs, opportunities, and geography in different superintendent regions and localities.	VRUEC	VA	Dec 2021
			Communicate environmental science grant opportunities through VDOE Teacher Direct, VDOE Science Update, and VDOE Environmental Literacy Web site.	VDOE	VA	Ongoing
			Use the district needs identified in the ELIT survey to guide technical assistance, state funding opportunities, and partnership development at the district level to support planning and programming (e.g. facilitating integration, identifying existing programming that can be converted to a MWEE, etc.).	MD PGC	MD	Dec 2021
			Convene WV MWEE providers including WVSTA, STEM teachers, DEP Youth Education Program, NASA, WV Extension agents, and others to discuss and encourage increased coordination and/or the replication of successful models to share through the WV DOEd.	WV OLNI	WV Bay Counties	Twice Annually

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		Continue to fund MWEEs through the DEP EE Grant Program, Pathways To Green School mini awards, and PA SMART Grants.	DEP, PDE	PA	
		Create a Professional Development Series for Administrators from formal k-12 and school support services (21st century, PA Smart Programs and Other ESSA connected supports) that introduces the MWEE process and LEA level environmental literacy plan development, including guides administrators through integration of MWEE and ELM in school curriculum and culture.	PA Task Force	PA	Ongoing
		Provide ongoing training and technical assistance to schools and non-school organizations. Trainings will be tiered to raise awareness from basic knowledge to more advanced content to support district as they develop MWEE framed instructional units, materials, and program criteria in the areas of environment and ecology, agriculture and society, sustainability, and STEM.	PA Task Force	PA	Ongoing
		Develop a Watershed Literacy Support web site to connect analog and digital resources, including PA Facilitators' Guide to enable adaption to hybrid or virtual MWEE implication modes.	PDE, CBF, DCNR, DEP, PA Ext. Stroud	PA	January 2021
<b>1.3</b>	Encourage the development of local networks that include school district(s), environmental education providers, and local	Expand the Outdoor Learning Network Initiative (OLNI) to 3 new school districts to support school districts working with community partners to develop embedded	CBT, CBF	Regional	Summer 2021

**ACTIONS – [2021-2022]**

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
	community groups to provide in-school and out-of-school opportunities to foster youth engagement.	environmental literacy programming in districts with new and emerging efforts.			
		Capture and share the lessons learned from the Outdoor Learning Network Initiative (OLNI) model	CBP	Regional	Jun 2021
		Create Environmental Literacy teams composed of one formal and one non-formal educator in each Superintendents region. Each team will communicate environmental opportunities specific to their region and will serve as a resource for both formal and nonformal educators in the area. Each team will also serve as a conduit between the localities, VRUEC, environmental organizations, and state agencies.	VRUEC/VAEE	VA	Dec 2022
		Solicit updates on an annual basis to ensure that the Bay Backpack directory of field experience providers is up-to-date.	CBP	States	January 2021, January 2022
		Organize a portal that houses a shared, searchable directory of EE providers' services that can support student projects.	MD PGC/OSSE	MD/DC	Dec 2021
		Engage Delaware partners in strategic conversations with the William Penn Foundation and US Fish and Wildlife Service regarding funding and support for environmental literacy programming the Delaware Bay Watershed	DESG, DDOE, NOAA	DE	ongoing
		Compile and disseminate MWEЕ models that encourage district-provider partnerships such as the PA OLNI networks using resources such	PDE, SWRC, DEP, DCNR, PSU Ext.	PA	ongoing



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		as MWEE repositories on PDE SAS and CBF resources			
		Fulfill the PDE responsibilities under the Environmental Education Act, including 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	
		Establish a mentor program for teachers and administrators that uses 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 2021
		Provide leadership and technical assistance to schools in developing the EEP planned instruction and program criteria through content standards for Environment and Ecology and Environmental Education, Agricultural Education, and School support services such as 21st Century Programs, Migrant Education PA Smart/STEM or other ESSA Support programs.	PDE	PA	Ongoing

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<b>Management Approach 2: Ensure the strategic and equitable delivery of environmental literacy programming</b>					
<b>2.1</b>	Work with school districts to collect standardized data and information using the Environmental Literacy Indicator Tool	Administer the Environmental Literacy Indicator Tool (ELIT) survey	NOAA	Regional	May-October 2021
		Work with states to develop state-specific questions for ELIT to identify inequities that may exist in environmental literacy programming	NOAA	Regional	Jan 2021
		Create reports, data visualizations, and progress indicators using data from the Environmental Literacy Indicator Tool and other pertinent information (e.g. socioeconomic, natural resource, etc.) to better inform policy and resource allocation decisions.	CBP, NOAA	Regional	Jan 2022
		Include state-specific questions in the 2021 ELIT to indicate districts' approval to share the data with partners to identify opportunities to offer support.	CBP	Region	Dec 2021
		Create a succinct report reflecting data obtained through the ELIT that reflects Virginia's progress with environmental literacy. This report would be shared with stakeholders and would inform professional development; organizations for sharing include VRUEC, VSELA, and through VA's Bay Implementation Team	VDOE	VA	Spring 2022
		Communicate through a regular memo to district leaders, including superintendents, the need to complete the Environmental Literacy Indicator Tool.	VDOE	VA	Summer 2021

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		Include ELIT data collection in School Health Profiles and share results in the Healthy Schools Act report	OSSE	DC	Dec 2022
		Administer ELIT in the Chesapeake Bay portion of West Virginia, including offering technical support to improve consistency and accuracy of response (e.g. orientation sessions, partnering school districts with MWEE Ambassadors, virtual office hours/consulting services).	WV ONLI	WV Bay Counties	Nov 2021
		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	PA	Spring 2021
		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	Spring 2021
<b>2.2</b>	Identify best practices and provide guidance resources to help address disparities to bring about justice, equity, diversity and inclusion to engage more	Complete the Environmental Literacy equity layer to identify areas to focus work with an emphasis on Justice, Equity, Diversity, & Inclusion priorities	CBP	Regional	Dec 2020
		Establish a task force within the Education Workgroup to work with the Diversity	CBP	Regional	Dec 2020

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	students who are not currently being served.	Workgroup to develop a strategy for better understanding and addressing equitable engagement in environmental literacy programming			
		Use the Environmental Literacy Decision Making Tool to identify districts most in need of environmental literacy efforts. Share these perceived gaps with other stakeholders who can provide support, inform policy, or seek funding.	VDOE	VA	Ongoing
		Expand and promote existing mapping tools and their use for decision-making such as local and state park planning or for steering funding opportunities. Connect MD-specific tools with the CBP E-Lit mapping tool.	MD PGC	MD	Dec 2021
		Use the mapping tools to identify communities most in need of improved access to green space. Identify where schools can use existing or enhanced spaces for outdoor environmental learning. Use the tools to assist partners in selecting those communities to receive additional resources (funding, technical assistance or attention) to guide actions that will close the gaps.	MD PGC	MD	Dec 2021
		Conduct a pilot educational project with students to use existing mapping tools for analysis of schoolyard, community, and connecting corridors to nearby nature, and to identify ways to improve access to green space, including where there are	MD PGC	MD	Dec 2022

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		opportunities to increase green space at schools.			
		Continue collaboration between DEP Environmental Education and Information Center with the DEP Office of Environmental Justice to ensure 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
		Redesign PA Department of Environmental Protections Environmental Justice (EJ) mapping tool to integrate Dept of Education and Dept of Health data related to EJ Area issues.	PDE, PA DEP EJ Office, DOH	PA	Dec 2021
		Promote use of existing geospatial and predictive modeling tools by <b>LEA leadership</b> as a systemic level decision making tool informing LEA Environmental Literacy Plan and by <b>formal and non-formal educators</b> 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
		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	PA DEP/ PDE/ DCNR	PA	Ongoing

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		patriation 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).			
<b>Management Approach 3: Ensure broad understanding at the state and regional level of the progress, gaps, and opportunities related to the Environmental Literacy Goal.</b>					
<b>3.1</b>	Regularly convene partners around key issues through interagency state working groups, the CBP Education Workgroup, and working with the Principals' Staff Committee to convene high-level leaders.	Convene the 2021 Environmental Literacy Leadership Summit to advance priorities related to equity in and support for environmental literacy	NOAA/CBP	Regional	Summer 2021
		Convening regular meetings of the Education workgroup	NOAA/CBP	Regional	Ongoing
		Present accomplishments and issues to the Management Board at the biennial review of the Next Generation Stewards portfolio	NOAA/EPA	Regional	May 2022
		Align VRUEC priorities written in the VRUEC strategic plan with CBP workplans.	VRUEC	VA	Annually, September
		Enhance communication between CBP and state networks (VRUEC, VAEE) by adding CBP Updates as a standing agenda item. Encourage members to report back from these meetings to their organization/agency leadership.	VRUEC, VAEE	VA	Bi-annually during set meetings
		Convene leadership of state agencies twice annually through Project Green Classrooms to continue informing and engaging them regarding environmental literacy progress,	MD PGC	MD	Annually, spring and fall (2021 and 2022)

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		gaps/needs and potential solutions; and to garner their engagement on appropriate statewide actions to advance ELit and related efforts.			
		Regularly convene the Environmental Literacy Advisory Committee to review progress and provide implementation recommendations.	OSSE	DC	Dec 2022
		Convene the PA Advisory Council on Environmental Education (PA ACEE) to review status of Environmental Literacy work and Educational efforts, review research and BMPs and provide recommendations for ELP and program changes.	PDE, PA ACEE	PA	Ongoing, minimum, semi annual meetings
		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, PA ACEE	PA	June 2022
		Convene PA Environmental Literacy Capacity Building leadership group and taskforce to examine needs within the Environmental Literacy framework. Work to include literature reviews, capacity expansion planning, revision and implementation of PD for teachers and administrators and teacher resource materials	PA Task Force	PA	June 2022
		Convene PA CBWA work group and state agency management group liaisons twice annually to continue informing and engaging	PDE/DEP/AG/DCNR	PA	Ongoing

**ACTIONS – [2021-2022]**

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		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.			
3.2	Identify and help to put in place the policies, programs, and resources (funding and staffing) necessary to achieve the Environmental Literacy Goal.	Work with Management Board to facilitate cooperation among environmental literacy and natural resources leadership contacts to address recommendations of the Education Workgroup, including helping to access existing funding sources that can be used to support environmental literacy programming and better connecting to parks/natural sites.	NOAA, CBF, EPA Region 3	Regional	Mar 2021 then ongoing
		Use the funding inventory and leadership contacts compiled by the Mangement Board to identify opportunities to use existing state funding and programs to support environmental literacy activities.	NOAA, CBF, EPA Region 3	Region	Mar 2021
		Develop a template for states to use to collect school district level data about the costs associated with equitable MWEE implementation to help determine the existing funding gap.	NOAA, MD PGC	Regional	Jun 2021
		Develop promotional materials for government officials to increase their buy-in to support environmental literacy to help achieve long-term environmental outcomes.	Stroud	Regional	Dec 2020
		Provide the Chesapeake Bay Commission with annual updates on the status, gaps, and	NOAA, CBF, EPA Region 3	Regional	Feb 2021; Feb 2022



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		opportunities related to the environmental literacy goal			
		Advocate for resources at the state and regional level to support formal and nonformal environmental education.	VAEE/CBF	VA	Ongoing
		Advocate for financial and personnel resources to revise the Delaware Environmental Literacy Plan.	DESG	DE	Jun 2022
		Identify existing and perceived institutional barriers that prevent or discourage educators from bringing children to nature spaces, and assist partners to provide guidance on best practices to overcome them.	MD PGC	MD	Dec 2022
		Work with agencies and partners to expand allowable uses of existing funding resources to support MWEE/sustainable schools integration and implementation.	MD PGC	MD	Dec 2022
		Survey MD school districts and nonprofit partners to assess the cost of systemic MWEEs and determine the funding gaps: (1) Identify funding needs to support systemic MWEEs including off site field experiences. (2) Bring leadership from agencies and partner organizations together with funders to collaborate on means to fill gaps.	MD PGC	MD	(1) Jun 2021, (2) Jun 2022
		Coordinate green careers providers statewide and develop information and tools for students about career paths: (1) Promote the Chesapeake Youth and	MD PGC	MD	(1) Dec 2021 (2) Dec 2021 (3) Dec 2022

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		Young Professionals jobs portal to increase its use. (2) Complete the MD Green Careers Guide and make available to schools, youth career development programs, and others. (3) Host a Green Pathways Forum/Youth Listening Session regarding mentorship and support along the career path.			
		Initiate 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 Green Ag Careers Guide and make available to schools, youth career development programs, and others.	PDE, AG, DEP	PA	Dec 2021
		Revise PA Environmental Literacy Plan to support environmental literacy and environmental justice awareness to ensure cultural competency and equity.	PDE, DEP EJ AND EE OFFICE	PA	June 2021
		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	PA (PDE, DCNR, DEP), SWRC, CBF	PA	Dec 2021

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		curriculum and inclusion of outdoor field experiences as recommended in the PA Env Lit Plan.			
<b>3.3</b>	Raise the visibility of successful models and approaches from the Chesapeake Bay region with national and regional environmental education organizations and funders.	Support the Chesapeake Bay Funders Network regional convening at the Blue Sky Funders Forum	CBT	Regional	Sept 2020
		Maintain Pisces Foundation support for the Outdoor Learning Network Initiative to illustrate the importance of a school district level partnership approach to systemic environmental literacy efforts	CBT	Regional	Jun 2021
		Submit an proposal/abstract on the systemic environmental literacy school district approach to the NAAEE conference	NOAA	Regional	Mar 2021
		Participate in environmental literacy work of the Council for State Science Supervisors and share lessons learned through cooperative work and presentations	VA DOE, NOAA	Multiple States	Ongoing
		Incorporate MWEEs into relevant conferences (ie, DE STEM Conference, DAEE, MAMEA)	DESG	DE	Ongoing
		PA MWEE Awards and Green Ribbon School program awards elevation.	PDE/DEP/PAEE/SWRC/PA ACEE	PA	ongoing
		DEP EE Grant "General" level awardee continues to present at a state or regional level professional organization conference.	DEP	PA	ongoing
		Incorporate environmental literacy and environmental justice goals within programming targets for Cohort 11 and	PDE	PA	Ongoing

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		future 21st Century Grant Program RFP materials.			
		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
		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
		Encourage presentations about VA success stories around environmental literacy at VAEE, VAST, NAAEE, NSTA, VSELA meetings and conferences.	VAEE, VRUEC	VA	Annually at conferences
		Provide opportunities at the Annual MAEOE conference for presentation of successful models and approaches within the Chesapeake Bay region to raise visibility and replication among MD educators.	MAEOE	MD	Annually at conferences