

# LOGIC MODEL Stormwater Pollution Solutions in My Neighborhood

Peter Donaldson | Sustainability Ambassadors | 206-227-9597 | peterdonaldson50@gmail.com

<b>BENCHMARK: Benchmark awareness of the problem and current community conditions to drive project-based learning.</b>			<p><b>Long-Term Outcomes</b></p> <p><u>NPDES PERMIT</u> Local jurisdictions meet or exceed NPDES permit obligations for public outreach and education.</p> <p><u>EMEDDED LEARNING</u> Stormwater curriculum, sequenced across grade levels and academic subjects, and featuring applied learning through field investigations, outdoor classrooms, and student-led Community Impact Projects, has become an integral part of the instructional program.</p> <p><u>CALL TO ACTION</u> Students, teachers, and families engage in stewardship actions at school, at home, and in their neighborhoods that measurably reduce the impacts of polluted stormwater runoff.</p> <p><u>WORKFORCE</u> A young and diverse workforce joins the emerging green stormwater infrastructure economy with skills in stormwater science, engineering, policy, project management and communications.</p> <p><u>REGIONAL REPLICATION</u> Our approach has generated regional partnerships throughout Puget Sound.</p>
<b>Activities</b>	<b>Outputs</b>	<b>Short-Term Outcomes</b>	
<b>Design and Deliver Pre/Post Tests</b>	Administer Pre-Tests to benchmark student understanding. Facilitate student research on finding “right answers” and designing projects.	Teachers integrate pre/post-test data to drive student Impact Project design, inform instruction, and improve community conditions.	
<b>Integrate Neighborhood Mapping</b>	Integrate classroom map sets, wall map and HeyDuwamish.org to help students visualize community conditions.	GSI improvements are benchmarked annually by students to visualize, report and motivate continuous improvement.	
<b>Align with Current Planning Frameworks</b>	Curate digital and print versions of a “Living Textbook” utilizing real-world planning, policy and performance documents to motivate learning.	Classroom instruction and Impact Projects are developed in context of the actual frameworks used by local government enhancing relevance.	
<b>EMPOWER: Empower students, teachers and families to take actions that reduce the impacts of polluted stormwater runoff.</b>			
<b>Activities</b>	<b>Outputs</b>	<b>Short-Term Outcomes</b>	
<b>Deliver Stormwater Seminars Series</b>	Deliver 15 Classroom Seminars to build rapport with teachers, model instructional strategies, and reinforce real world context for project design.	Teachers report greater understanding of stormwater issues and of the problem-based pedagogical approach.	
<b>Professional Development for Teachers</b>	Recruit teacher leaders to participate in a year-long process to integrate academic standards, real-world content, and community impact.  Co-convene an “Experts Roundtable”  Facilitate two Teacher-2-Teacher Conferences.  Sponsor teacher and student leaders at Green Duwamish Symposium.	Teachers are empowered to design project-based units that are integrated across disciplines, incorporate field experiences and track community impact.	
<b>Integrate Experiential Learning in the Field</b>	Develop protocols for integrating Outdoor Classrooms, Field Investigations, and Community Impact Projects in the curriculum.	Experiential learning leads to greater understanding of stormwater issues and inspires stewardship action.	
<b>Communicating Positive Results to Stakeholders</b>	Develop a database of community stakeholders, coach student speakers, and schedule an annual rhythm of presentations.	Annually updated, data-driven student presentations inspire greater levels of community understanding and stewardship action.	
<b>Workforce Development</b>	Convene an intergenerational Green Stormwater Infrastructure Workforce Workshop to outline Road Map for a local jobs pipeline.	Inspired students present Road Map vision to stakeholders and ask for greater support in next step recommendations.	
<b>EVALUATE: Evaluate program efficacy in relation to community impact.</b>			
<b>Activities</b>	<b>Outputs</b>	<b>Short-Term Outcomes</b>	
<b>Establish evaluation tools and culture of reflective analysis</b>	Coach participants and partners on how to use measures of community impact to drive curriculum design and student projects.	Embedded reflective analysis improves program efficacy. Evaluation methods and results are shared regionally.	

