



# Literature Review

## Green School Outline

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**Intro** *A Green Schoolyard Manual*

*Green City, Clean Waters is Philadelphia’s 25-year plan to protect and enhance our watersheds by managing stormwater with innovative green infrastructure. The Philadelphia Water Department developed Green City, Clean Waters to provide a clear pathway to a sustainable future while strengthening the utility, broadening its mission, and complying with environmental laws and regulations.*

The implementation of this mission focuses on different urban land use conditions to develop green stormwater infrastructure (GSI) to capture stormwater at its source and minimize the amount of pollutants that reach the Delaware River, the Schuylkill River, and the many tributary streams within the city. Each land use condition presents its own unique conditions that must be addressed if GSI solutions are to be successful.

It is the goal of PWD to provide technical assistance unique to each land use scenario that can ensure long term sustainability of GSI features. PWD Green Streets program is an excellent example providing technical assistance to developers, private entities, non-City agencies, and non-profits, and their designers and contractors undertaking improvement projects within the right-of-way in order to encourage the inclusion of green stormwater infrastructure elements.

The Green Streets Manual is the result of the Philadelphia Water Department working closely with the Mayor’s Office of Transportation and Utilities, the Streets Department, Philadelphia Parks and Recreation, and other public utilities, partners, and agencies to develop detailed design templates for green streets that are flexible enough to be applied in a variety of urban street conditions.

Similarly, a Green Schoolyard Manual would outline what types of GSI practices are appropriate for schoolyard elements and provide standardized details, and lay out the necessary design review and maintenance procedures to expedite green schoolyard development in Philadelphia. While PWD has developed a triple bottom line benefits approach for green stormwater infrastructure of economic, environmental and social, schoolyards have an added layer of educational and health related benefits. The matrix developed in partnership with PWD and the Philadelphia Green Schools Alliance illustrates these expanded benefits and the points of intersection between schools and GSI.

It is the intent of Philadelphia Water to develop the most effective green infrastructure to support schoolyard settings. This document is the first step in developing a Green Schoolyard Manual and is a literature review focused on identifying, appraising, selecting and synthesizing current national city and school district data relating to the integration of green stormwater infrastructure and schoolyard design standards.

This literature review is one of two supporting documents prepared for Philadelphia Water as the first steps in creating a green schoolyard manual. The review explored current state, city, municipality and school district literature regarding existing or potential integration of green stormwater infrastructure and the design of schoolyards.

Philadelphia Green Schools Alliance  
6/25/15

Integrated Benefits	Outcomes	Typical Schoolyards Elements		
		Stormwater Infrastructure	Nature Play & Trees	Educational Opportunity
<b>education</b>	Expand outdoor education			
	Create places for hands-on learning			
	Improve nutrition education with gardening			
	Increase physical education options			
<b>environmental</b>	Increase green infrastructure			
	Apply green technology and materials			
	Improve local environmental quality			
<b>health</b>	Increase access to fresh produce			
	Improve physical activity for youth and adults			
	Create opportunities for active living			
<b>social/cultural/historical</b>	Create places for positive community change			
	Develop life skills for people of all ages			
	Celebrate local heritage and culture			
<b>economic</b>	Invest in community			
	Create green Jobs			
	Improve property values			

# Literature Review

## **Executive Summary** *Observations and Findings*

### OVERVIEW

Of the 70 cities researched, 177 references were found relating to stormwater, green stormwater infrastructure, and schoolyards. The documents were either city or district documents, case studies, scholarly articles, and/or third party resources. These references fell into the following general categories:

104	GSI related material
50	Stormwater specific material
27	Schoolyard related material
1	Maintenance specific material

‘Green stormwater infrastructure’ (GSI) was found to be used synonymously with ‘low impact development’ (LID) and both were used in search queries throughout the process. Most municipalities target GSI and LID strategies for residential, commercial, municipal/institutional, and industrial facilities...seemingly all aspects of a landuse except schoolyards.

- As Example: Denver Development Type Guidelines
- Ultra-Urban
  - High Density Mixed Use
  - Higher Education Campus
  - Industrial
  - Low Density Mixed Use
  - Residential
  - Parks and Natural Areas Open Space

While a large percentage of cities have stormwater manuals in general, detail for specific design items such as rain gardens, green roofs, etc. is lacking. Standards regarding public interaction is minimal and, when referred to, the focus is passive addressing aesthetic appeal. Any other interaction was directed at maintenance personnel.

Only New York City, Portland and San Francisco appear to have integrated standards for GSI and schoolyard guidelines. The San Francisco Unified School District (SFUSD) and Portland Public Schools (PPS) are found to have the most relevant information online regarding GSI/LID development in schoolyards. Both cities have school district publications that outline the processes, expectations, guidelines, etc. for designing, creating, and maintaining green school yards. (See the SFUSD Green Schoolyard Manual and PPS Design Guidelines and Standards) These documents are very much a collaboration across municipal departments and support larger city and county stormwater management and low impact development master plans, guidelines, manuals, and/or handbooks.

San Francisco based non-profit Education Outside has spearheaded efforts for greening 22 elementary schoolyards to date in partnership with the SFUSD Sustainability Director, helping to create the school district’s design process and guidelines. These guidelines include ensuring that interested groups be in communication with the SFUSD district architect. Education Outside,

as a third party, also helps community groups and schools tap into voter approved bond funding, plan, staff and maintain projects. They also offer educational resources on trees, rainwater, mulch & compost, curriculum and troubleshooting.

PPS has adopted GSI standards that meet the larger Washington County’s Clean Water Services Low Impact Development Handbook...similarly, they refer to the City’s Red Cinder Ecoroof Design Guidelines as the go to source for implementing and maintaining green roofs on school property.

School district facilities staff act as project managers to help community groups through the process of designing, planning, and implementing schoolyard projects to ensure that completion of projects which meet codes, district standards, and will have long-term maintenance and community support. This in turn also creates opportunities for consistency throughout the schoolyard greening process. It is important to note that the PPS web page is transparent and encouraging toward these efforts, but at the same time is conscious of protocol and the continuity of built projects in partnership with the city. For instance, on the Portland Public Schools Garden Projects web page, under item 5, Develop watering plan, it states “If the garden is a stormwater management installation, the city requires an operations and maintenance plan in order to get a permit.”

For both school districts, funding and budgets are of concern especially in regards to the maintenance, care, and upkeep of schoolyard projects. School district facility/landscape staff are stretched thin, and there are subsequent requirements built into the stages of design and planning. In order for projects to be considered, detailed maintenance plans are required during the approval process. This includes outlining which community group is responsible for the scheduling of, for instance, community volunteer days, watering for plant establishment, monitoring of GSI elements (rain barrels/cisterns) and trash removal throughout the year. Education Outside offers specific maintenance curriculum and workshops as part of an agreement between the school and community. (Their agreement form can be seen here.)

The successes of green schoolyard initiatives in both Portland and San Francisco are a clear result of collaboration from both ‘grassroots’ and ‘grasstops’. They have efficiently unified community and neighborhood groups, individual schools, water departments, and city and county governments. In the spirit of public schoolyards being the second largest category of public land within a city, the school districts demonstrate that the existing city, county, regional or state published resources regarding other public spaces are found to be valued and referred to. Furthermore, these resources are valued for their potential to create educational opportunities within schoolyards while supporting school missions. In partnership with schools and government staff, neighborhoods are encouraged to take ownership of their schoolyards and in-so-doing are empowered to steward education, community, water quality/conservation, and the overall beautification of their neighborhoods and cities.

## **Methods and Procedure** *Description*

### Overview

The process for this literature review included the recognition, retrieval and synthesis of relevant material relating to municipalities and/or school districts that recognize stormwater management opportunities and low impact development

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strategies/approaches as they relate to schoolyards. During this stage relevant reports, articles, monographs, dissertations, etc. were identified, reviewed and ranked as follows:

- 5 - GSI manual with green schoolyard manual
- 4 - Green schoolyard guidelines but no GSI
- 3.5 or 4/3 - Both GSI and Schoolyard guidelines but separate not integrated
- 3 - Well developed guidelines for GSI but nothing related to schoolyards
- 2 - GSI manual but not easily translated for a school environment
- 1 - Nothing

The process of reviewing the literature and writing a literature review can be complicated and lengthy. When an orderly system can be designed, it is easier to keep track of the reference material. A system of organization and planning through matrices will allow for the retrieval of data in the future. For each city or state identified a master list of internet links to documents and a bibliography was compiled in matrix form.

City selection was based on three criteria:

- 1) Including the Top 50 most populated. (From New Orleans Pop. 343,829, to New York City Pop. 8,175,133) 50 Largest populations
- 2) PWD list of peer cities
- 3) Lesser populated cities that exhibited “GSI potential”

Additionally, the documents have been categorized by five content areas:

- GSI - Green Stormwater Infrastructure - material referencing green stormwater or low impact development techniques
- SW - Stormwater - material referencing typical grey stormwater infrastructure techniques
- M - Maintenance - maintenance standards, guidelines and/or practices
- SY - Schoolyards - material referencing schoolyards through either school district or third party publication
- CS - Case Study - material referencing GSI and/or green school projects as pertains to that city It was not the intent of

## Study Limitations

This report evaluates the strengths and weaknesses of the literature collected and read based on the criteria described herein. Material was collected during a two month period and relied solely on internet access of documents and associated links. Using Google, Google Scholar, and the University of Colo. Library search engines to find literature related to green stormwater infrastructure as it applies to schoolyard application, implementation, education, ecology, and water quality improvement opportunities. The following search queries in each search engine were used: “schools and alternative stormwater management” “schools and green stormwater infrastructure” “schools and stormwater retrofits” “green stormwater infrastructure in schoolyards” and “low impact development in schoolyards”

## City Ranking *Evaluation of standards available at city or school district level*

RATING	STATE	CITY	RATING	STATE	CITY
5	New York	New York City	2.5	Arizona	Phoenix
5	California	San Francisco	2.5	Oregon	Bend
5	Oregon	Portland	2.5	Utah	Salt Lake City
4	Pennsylvania	Philadelphia	2.5	Hawaii	Honolulu
4	Massachusetts	Boston	2	Florida	Jacksonville
4	New Zealand	Auckland	2	Ohio	Columbus
4	Ontario	Toronto	2	Texas	Fort Worth
3.5	Arizona	Tucson	2	North Carolina	Charlotte
3.5	Colorado	Denver	2	Michigan	Detroit
3.5	Colorado	Ft. Collins	2	Tennessee	Memphis
3.5	British Columbia	Vancouver	2	Tennessee	Nashville
3.5	Georgia	Atlanta	2	Maryland	Baltimore
3.5	Vermont		2	Nevada	Las Vegas
3	California	Los Angeles	2	Kentucky	Louisville
3	Illinois	Chicago	2	Wisconsin	Milwaukee
3	Texas	Houston	2	New Mexico	Albuquerque
3	Texas	San Antonio	2	California	Fresno
3	California	San Diego	2	Virginia	Virginia Beach
3	Texas	Dallas	2	North Carolina	Raleigh
3	California	San Jose	2	Florida	Miami
3	Texas	Austin	2	Oklahoma	Tulsa
3	Indiana	Indianapolis	2	Ohio	Cleveland
3	Texas	El Paso	2	Louisiana	New Orleans
3	Washington	Seattle	2	Illinois	Springfield
3	District of Columbia	Washington	2	Wisconsin	Madison
3	Oklahoma	Oklahoma City	2	Alabama	Auburn
3	California	Sacramento	2	Connecticut	Bridgeport
3	Missouri	Kansas City	2	Washington	Olympia
3	Arizona	Mesa	2	North Carolina	Wilmington
3	Nebraska	Omaha	2	Arkansas	Little Rock
3	Colorado	Colorado Springs	2	Québec	Montreal
3	California	Oakland	2	Maryland	
3	Minnesota	Minneapolis	1	New York	Buffalo
3	Oregon	Eugene			
3	Nebraska	Lincoln			
3	South Dakota	Sioux Falls			
3	Alaska	Anchorage			
3	Missouri	St. Louis			
3	Maryland	Prince George's County			
3	Arizona	Flagstaff			

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## LEGEND

5 - GSI material incorporated with green schoolyard materials | 4 - Well developed GSI guidelines but no Green schoolyards guidelines | 3 - GSI guidelines but not in detail with design elements |

2 - Stormwater material lacking GSI approaches | 1 - Nothing Relevant

GSI - Green Stormwater Infrastructure | SW - Storm Water | M - Maintenance | SY - Schoolyards | CS - Case Studies

RATING	STATE	CITY	LINK CATEGORY	REFERENCE	REF. NO.	BIBLIOGRAPHY
5	New York	New York City	GSI	<a href="http://www.nyc.gov/html/dep/pdf/green_infrastructure/stormwater_guidelines_2012_final.pdf">http://www.nyc.gov/html/dep/pdf/green_infrastructure/stormwater_guidelines_2012_final.pdf</a>	1	Department of Environmental Protection, New York City. (July 2012). Guidelines for the design and construction of stormwater management systems. Retrieved from <a href="http://www.nyc.gov/html/dep/pdf/green_infrastructure/stormwater_guidelines_2012_final.pdf">http://www.nyc.gov/html/dep/pdf/green_infrastructure/stormwater_guidelines_2012_final.pdf</a>
5	New York	New York City	SW	<a href="http://www.dec.ny.gov/docs/water_pdf/swdm2010entire.pdf">http://www.dec.ny.gov/docs/water_pdf/swdm2010entire.pdf</a>	2	Center for Watershed Protection. (August 2010). Storm water management design manual. Retrieved from <a href="http://www.dec.ny.gov/docs/water_pdf/swdm2010entire.pdf">http://www.dec.ny.gov/docs/water_pdf/swdm2010entire.pdf</a>
5	New York	New York City	M	<a href="http://www.nyc.gov/html/dep/pdf/green_infrastructure/bioswales-standard-designs.pdf">http://www.nyc.gov/html/dep/pdf/green_infrastructure/bioswales-standard-designs.pdf</a>	3	Dept. of Environmental Protection, Office of Green Infrastructure, NYC. (August 29, 2014). Standards for green infrastructure. Retrieved from <a href="http://www.nyc.gov/html/dep/pdf/green_infrastructure/bioswales-standard-designs.pdf">http://www.nyc.gov/html/dep/pdf/green_infrastructure/bioswales-standard-designs.pdf</a>
5	New York	New York City	SY	<a href="http://www.nyc.gov/html/ia/gprb/downloads/pdf/NYC_Parks&amp;Rec_Schoolyards.pdf">http://www.nyc.gov/html/ia/gprb/downloads/pdf/NYC_Parks&amp;Rec_Schoolyards.pdf</a>	4	Global Partners' Innovation Exchange, NYC. (JULY 8, 2013). Best practice: Converting schoolyards to community playgrounds. Retrieved from <a href="http://www.nyc.gov/html/ia/gprb/downloads/pdf/NYC_Parks&amp;Rec_Schoolyards.pdf">http://www.nyc.gov/html/ia/gprb/downloads/pdf/NYC_Parks&amp;Rec_Schoolyards.pdf</a>
5	New York	New York City	CS	<a href="http://water.columbia.edu/files/2014/04/Green_Infrastructure_FINAL.pdf">http://water.columbia.edu/files/2014/04/Green_Infrastructure_FINAL.pdf</a>	5	Economides, C. (Spring, 2014). Green infrastructure: Sustainable solutions in 11 cities across the united states. Retrieved from <a href="http://water.columbia.edu/files/2014/04/Green_Infrastructure_FINAL.pdf">http://water.columbia.edu/files/2014/04/Green_Infrastructure_FINAL.pdf</a>
5	New York	New York City	CS	<a href="http://www.treehugger.com/clean-technology/nyc-build-green-playgrounds-stormwater-capture.html">http://www.treehugger.com/clean-technology/nyc-build-green-playgrounds-stormwater-capture.html</a>	6	Markham, D. (March 14, 2012). NYC to build green playgrounds for stormwater capture. Retrieved from <a href="http://www.treehugger.com/clean-technology/nyc-build-green-playgrounds-stormwater-capture.html">http://www.treehugger.com/clean-technology/nyc-build-green-playgrounds-stormwater-capture.html</a>
5	California	San Francisco	GSI - SY	<a href="https://www.educationoutside.org/sites/default/files/docs/SFGSA-Resource-Directory-2009.pdf">https://www.educationoutside.org/sites/default/files/docs/SFGSA-Resource-Directory-2009.pdf</a>	7	Danks, S., & Cooper, T. (2008). Green schoolyard resource directory: For the san francisco bay area. <a href="https://www.educationoutside.org/sites/default/files/docs/SFGSA-Resource-Directory-2009.pdf">https://www.educationoutside.org/sites/default/files/docs/SFGSA-Resource-Directory-2009.pdf</a> : San Francisco Green Schoolyard Alliance.
5	California	San Francisco	GSI	<a href="http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2778">http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2778</a>	8	Beaupre, D., et. al. (November 2009). San Francisco Stormwater Design Guidelines, appendix A: BMP factsheets. <a href="http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2778">http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2778</a> : City of San Francisco, San Francisco Public Utilities Commission, Port of San Francisco.
5	California	San Francisco	GSI	<a href="http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2779">http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2779</a>	9	Beaupre, D., et. al. (November 2009). San Francisco Stormwater Design Guidelines. <a href="http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2779">http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2779</a> : City of San Francisco, San Francisco Public Utilities Commission, Port of San Francisco.
5	California	San Francisco	GSI	<a href="http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2775">http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2775</a>	10	Beaupre, D., et. al. (November 2009). San Francisco stormwater design guidelines, appendix D: Vegetation palette. <a href="http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2775">http://www.sfwater.org/Modules/ShowDocument.aspx?documentID=2775</a> : City of San Francisco, San Francisco Public Utilities Commission, Port of San Francisco.
5	California	San Francisco	GSI - SY	<a href="https://www.educationoutside.org/sites/default/files/docs/SFUSD%20GSY%20Guidelines_2013.pdf">https://www.educationoutside.org/sites/default/files/docs/SFUSD%20GSY%20Guidelines_2013.pdf</a>	11	Sustainable San Francisco Unified School District. (October 16, 2013). Green school guidelines. <a href="https://www.educationoutside.org/sites/default/files/docs/SFUSD%20GSY%20Guidelines_2013.pdf">https://www.educationoutside.org/sites/default/files/docs/SFUSD%20GSY%20Guidelines_2013.pdf</a> : San Francisco Unified School District.
5	California	San Francisco	GSI	<a href="http://www.sfwater.org/index.aspx?page=446">http://www.sfwater.org/index.aspx?page=446</a>	12	San Francisco Public Utilities Commission. (2015). Stormwater design guidelines links. Retrieved from <a href="http://www.sfwater.org/index.aspx?page=446">http://www.sfwater.org/index.aspx?page=446</a>
5	California	San Francisco	GSI	<a href="https://www.casqa.org/sites/default/files/BMPHandbooks/BMP_NewDevRedev_Complete.pdf">https://www.casqa.org/sites/default/files/BMPHandbooks/BMP_NewDevRedev_Complete.pdf</a>	13	Camp Dresser & McKee Inc. (CDM) and Larry Walker Associates (LWA). (January 2003). Stormwater best management practice handbook: New development and redevelopment. <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a> : California Stormwater Quality Association. doi: <a href="https://www.casqa.org/sites/default/files/BMPHandbooks/BMP_NewDevRedev_Complete.pdf">https://www.casqa.org/sites/default/files/BMPHandbooks/BMP_NewDevRedev_Complete.pdf</a>

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RATING	STATE	CITY	LINK CATEGORY	REFERENCE	REF. NO.	BIBLIOGRAPHY
5	Oregon	Portland	CS	<a href="http://www.gnof.org/wp-content/uploads/2013/06/FINAL-Green-Stormwater-Infrastructure-Programs.pdf">http://www.gnof.org/wp-content/uploads/2013/06/FINAL-Green-Stormwater-Infrastructure-Programs.pdf</a>	14	Greater New Orleans Foundation. (2013). Green stormwater infrastructure programs, policies, & projects from exemplar cities. Retrieved from <a href="http://www.gnof.org/wp-content/uploads/2013/06/FINAL-Green-Stormwater-Infrastructure-Programs.pdf">http://www.gnof.org/wp-content/uploads/2013/06/FINAL-Green-Stormwater-Infrastructure-Programs.pdf</a>
5	Oregon	Portland	GSI	<a href="https://www.cleanwaterservices.org/Content/Documents/Permit/LIDA%20Handbook.pdf">https://www.cleanwaterservices.org/Content/Documents/Permit/LIDA%20Handbook.pdf</a>	15	Public Education and Outreach Committee, Tualatin Basin Natural Resources Coordinating Committee. (July 2009). Low impact development approaches handbook. <a href="https://www.cleanwaterservices.org/Content/Documents/Permit/LIDA%20Handbook.pdf">https://www.cleanwaterservices.org/Content/Documents/Permit/LIDA%20Handbook.pdf</a> : Clean Water Services.
5	Oregon	Portland	GSI in SY	<a href="https://drive.google.com/file/d/0B2vrlMdSVqNEcOFYMnhrNWxxcFE/view">https://drive.google.com/file/d/0B2vrlMdSVqNEcOFYMnhrNWxxcFE/view</a>	16	Portland Public Schools. (July 1, 2014). Portland public schools: Design guidelines & standards. <a href="https://drive.google.com/file/d/0B2vrlMdSVqNEcOFYMnhrNWxxcFE/view">https://drive.google.com/file/d/0B2vrlMdSVqNEcOFYMnhrNWxxcFE/view</a> : Portland Public Schools.
5	Oregon	Portland	SY	<a href="http://www.pps.k12.or.us/files/facilities/LRFP_-_PDF(1).pdf">http://www.pps.k12.or.us/files/facilities/LRFP_-_PDF(1).pdf</a>	17	Portland Public Schools. (May 2012). Long range facility plan. <a href="http://www.pps.k12.or.us/files/facilities/LRFP_-_PDF(1).pdf">http://www.pps.k12.or.us/files/facilities/LRFP_-_PDF(1).pdf</a> : Portland Public Schools.
5	Oregon	Portland	SY	<a href="https://www.portlandoregon.gov/bes/article/464519">https://www.portlandoregon.gov/bes/article/464519</a>	18	Environmental Services. (September 2013). Red cinder ecoroof design guidelines: Working for clean rivers. <a href="https://www.portlandoregon.gov/bes/article/464519">https://www.portlandoregon.gov/bes/article/464519</a> : City of Portland.
5	Oregon	Portland	GSI	<a href="http://www.portlandoregon.gov/bes/34598">http://www.portlandoregon.gov/bes/34598</a>	19	Environmental Services, City of Portland. (2015). Sustainable stormwater management. Retrieved from <a href="http://www.portlandoregon.gov/bes/34598">http://www.portlandoregon.gov/bes/34598</a>
5	Oregon	Portland	SY	<a href="http://www.pps.k12.or.us/departments/facilities/5035.htm">http://www.pps.k12.or.us/departments/facilities/5035.htm</a>	20	Portland Public Schools. (2015). Garden projects. Retrieved from <a href="http://www.pps.k12.or.us/departments/facilities/5035.htm">http://www.pps.k12.or.us/departments/facilities/5035.htm</a>
5	Oregon	Portland	GSI - SY	<a href="http://depave.org/">http://depave.org/</a>	178	Depave. (2015). Home page. Retrieved from <a href="http://depave.org/">http://depave.org/</a>
5	NA	NA	GSI - SY	<a href="http://drum.lib.umd.edu/handle/1903/12845">http://drum.lib.umd.edu/handle/1903/12845</a>	Lit - 2	Jensen, A. P. (2012). Green and blue schools: The use of environmentally sensitive rainwater design at Georgetown Visitation Preparatory School in Georgetown, Washington DC (Plant Science and Landscape Architecture (PLSA)). doi: <a href="http://hdl.handle.net/1903/12845">http://hdl.handle.net/1903/12845</a>
5	NA	NA	GSI - SY	<a href="http://scholar.lib.vt.edu/theses/available/etd-09012003-184726/unrestricted/empowerment.pdf">http://scholar.lib.vt.edu/theses/available/etd-09012003-184726/unrestricted/empowerment.pdf</a>	Lit - 5	Belcher, S. (2003). Ecological schoolyards: Landscapes of empowerment (Master of Landscape Architecture).
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4	Pennsylvania	Philadelphia	GSI	<a href="http://www.phillywatersheds.org/img/GSDM/GSDM_FINAL_20140211.pdf">http://www.phillywatersheds.org/img/GSDM/GSDM_FINAL_20140211.pdf</a>	21	Philadelphia Water Departments, P. (2014). City of philadelphia green streets design manual. Retrieved from <a href="http://www.phillywatersheds.org/img/GSDM/GSDM_FINAL_20140211.pdf">http://www.phillywatersheds.org/img/GSDM/GSDM_FINAL_20140211.pdf</a>
4	Pennsylvania	Philadelphia	M	<a href="http://phillywatersheds.org/doc/GSIMaintenanceManual-1stEdwpreable_HRes.pdf">http://phillywatersheds.org/doc/GSIMaintenanceManual-1stEdwpreable_HRes.pdf</a>	22	Philadelphia Water Departments, P. (June 1, 2014). Green city, clean waters green infrastructure maintenance manual. Retrieved from <a href="http://phillywatersheds.org/doc/GSIMaintenanceManual-1stEdwpreable_HRes.pdf">http://phillywatersheds.org/doc/GSIMaintenanceManual-1stEdwpreable_HRes.pdf</a>
4	Pennsylvania	Philadelphia	GSI	<a href="http://www.phillywatersheds.org/what_were_doing/gsi_design_resources%20">http://www.phillywatersheds.org/what_were_doing/gsi_design_resources%20</a>	23	Philadelphia Water Departments, P. (2015). Green stormwater infrastructure design resources. Retrieved from <a href="http://www.phillywatersheds.org/what_were_doing/gsi_design_resources%20">http://www.phillywatersheds.org/what_were_doing/gsi_design_resources%20</a>
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5 - GSI material incorporated with green schoolyard materials | 4 - Well developed GSI guidelines but no Green schoolyards guidelines | 3 - GSI guidelines but not in detail with design elements |

2 - Stormwater material lacking GSI approaches | 1 - Nothing Relevant

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3	Washington	Seattle	SY	<a href="https://www.facingthefuture.org/IssuesSolutions/TakeActionProjects/KingCountyGreenSchools/tabid/233/Default.aspx#VXn7RlxVikp">https://www.facingthefuture.org/IssuesSolutions/TakeActionProjects/KingCountyGreenSchools/tabid/233/Default.aspx#VXn7RlxVikp</a>	100	Facing the Future. (2015). King county green schools. Retrieved from <a href="https://www.facingthefuture.org/IssuesSolutions/TakeActionProjects/KingCountyGreenSchools/tabid/233/Default.aspx#VYCne1xVikq">https://www.facingthefuture.org/IssuesSolutions/TakeActionProjects/KingCountyGreenSchools/tabid/233/Default.aspx#VYCne1xVikq</a>

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3	District of Columbia	Washington	SW	<a href="https://fortress.wa.gov/ecy/publications/publications/0410076.pdf">https://fortress.wa.gov/ecy/publications/publications/0410076.pdf</a>	101	State Department of Ecology, Washington. (September, 2004). Stormwater management manual for eastern washington. Retrieved from <a href="https://fortress.wa.gov/ecy/publications/publications/0410076.pdf">https://fortress.wa.gov/ecy/publications/publications/0410076.pdf</a>
3	District of Columbia	Washington	SW	<a href="https://fortress.wa.gov/ecy/publications/summarypages/1210030.html">https://fortress.wa.gov/ecy/publications/summarypages/1210030.html</a>	102	Dept. of Washington, State of Washington. (August, 2012). Retrieved from <a href="https://fortress.wa.gov/ecy/publications/documents/1210030.pdf">https://fortress.wa.gov/ecy/publications/documents/1210030.pdf</a>
3	District of Columbia	Washington	CS	<a href="http://water.columbia.edu/files/2014/04/Green_Infrastructure_FINAL.pdf">http://water.columbia.edu/files/2014/04/Green_Infrastructure_FINAL.pdf</a>	5	Economides, C. (Spring, 2014). Green infrastructure: Sustainable solutions in 11 cities across the united states. Retrieved from <a href="http://water.columbia.edu/files/2014/04/Green_Infrastructure_FINAL.pdf">http://water.columbia.edu/files/2014/04/Green_Infrastructure_FINAL.pdf</a>
3	Oklahoma	Oklahoma City	GSI	<a href="http://www.usgbc-oklahoma.org/archives/ai1ec_event/okc-green-infrastructure-education-program-retrofitting-stormwater-systems-for-flood-hazard-mitigation-with-low-impact-development-lid-techniques">http://www.usgbc-oklahoma.org/archives/ai1ec_event/okc-green-infrastructure-education-program-retrofitting-stormwater-systems-for-flood-hazard-mitigation-with-low-impact-development-lid-techniques</a>	-	NA
3	Oklahoma	Oklahoma City	GSI	<a href="http://www.owrb.ok.gov/about/about_pdf/FACT-StormwaterFunding.pdf">http://www.owrb.ok.gov/about/about_pdf/FACT-StormwaterFunding.pdf</a>	103	Clean Water State Revolving Fund.Funding stormwater projects fact sheet. <a href="http://www.owrb.ok.gov/about/about_pdf/FACT-StormwaterFunding.pdf">http://www.owrb.ok.gov/about/about_pdf/FACT-StormwaterFunding.pdf</a> : Oklahoma Water Resources Board.
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3	Missouri	Kansas City	CS	<a href="http://www.sustainablecitynetwork.com/topic_channels/water/article_59336e44-91a0-11e2-a8f1-001a4bcf6878.html">http://www.sustainablecitynetwork.com/topic_channels/water/article_59336e44-91a0-11e2-a8f1-001a4bcf6878.html</a>	108	Rodgers, R. (Thursday, May 15, 2014). Green infrastructure passes KC test. Retrieved from <a href="http://www.sustainablecitynetwork.com/topic_channels/water/article_59336e44-91a0-11e2-a8f1-001a4bcf6878.html">http://www.sustainablecitynetwork.com/topic_channels/water/article_59336e44-91a0-11e2-a8f1-001a4bcf6878.html</a>
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3	Colorado	Colorado Springs	GSI	<a href="http://www.udfcd.org/downloads/pdf/critmanual/Volume%203%20PDFs/USDCM%20Volume%203.pdf">http://www.udfcd.org/downloads/pdf/critmanual/Volume%203%20PDFs/USDCM%20Volume%203.pdf</a>	45	Urban Drainage and Flood Control District. (November 2010). Urban storm drainage criteria manual: Volume 3, best management practices. <a href="http://www.udfcd.org">www.udfcd.org</a> : Water Resources Publications, LLC. doi: <a href="http://www.udfcd.org/downloads/pdf/critmanual/Volume%203%20PDFs/USDCM%20Volume%203.pdf">http://www.udfcd.org/downloads/pdf/critmanual/Volume%203%20PDFs/USDCM%20Volume%203.pdf</a>
3	California	Oakland	GSI	<a href="http://www.sfestuary.org/wp-content/uploads/2015/03/BAWN031915_Tuden.pdf">http://www.sfestuary.org/wp-content/uploads/2015/03/BAWN031915_Tuden.pdf</a>	118	Hathaway, K., & Tuden, R. (2015). Oakland's urban greening program. <a href="http://www.sfestuary.org/wp-content/uploads/2015/03/BAWN031915_Tuden.pdf">http://www.sfestuary.org/wp-content/uploads/2015/03/BAWN031915_Tuden.pdf</a> : City of Oakland Public Works Watershed and Stormwater Management, City of Oakland.



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RATING	STATE	CITY	LINK CATEGORY	REFERENCE	REF. NO.	BIBLIOGRAPHY
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3	California	Oakland	CS	<a href="http://adaptoakland.org/wp-content/uploads/2013/04/2PageLongProjectBrief-ForYouToKnow.pdf">http://adaptoakland.org/wp-content/uploads/2013/04/2PageLongProjectBrief-ForYouToKnow.pdf</a>	120	Adapt Oakland: An Ecosystem Economy. (2013). CA proposition 84: Urban greening planning grant for adapt oakland. <a href="http://adaptoakland.org/wp-content/uploads/2013/04/2PageLongProjectBrief-ForYouToKnow.pdf">http://adaptoakland.org/wp-content/uploads/2013/04/2PageLongProjectBrief-ForYouToKnow.pdf</a> : Adapt Oakland.
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2	Utah	Salt Lake City	SW	<a href="http://slco.org/watershed/wtrQualSteward/index.html">http://slco.org/watershed/wtrQualSteward/index.html</a>	-	NA
2	Hawaii	Honolulu	GSI	<a href="http://cleanwaterhonolulu.com/storm/learning_center/pdf/Green%20Infrastructure%20for%20Homeowners-FINAL.pdf">http://cleanwaterhonolulu.com/storm/learning_center/pdf/Green%20Infrastructure%20for%20Homeowners-FINAL.pdf</a>	-	NA
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# Literature Review

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5 - GSI material incorporated with green schoolyard materials | 4 - Well developed GSI guidelines but no Green schoolyards guidelines | 3 - GSI guidelines but not in detail with design elements |

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GSI - Green Stormwater Infrastructure | SW - Storm Water | M - Maintenance | SY - Schoolyards | CS - Case Studies

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2	Arkansas	Little Rock	SW	<a href="http://dekalbcounty.org/PlanningZoningBuilding/Plans/Stormwater/sw_plan.pdf">http://dekalbcounty.org/PlanningZoningBuilding/Plans/Stormwater/sw_plan.pdf</a>	-	Material not relevant to the Annotated Outline
2	Arkansas	Little Rock	SW	<a href="http://www2.epa.gov/">http://www2.epa.gov/</a>	-	NA
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