

Table of Contents

9	Prologue	Design
15	Acknowledgments	
19	Introduction	93 Proof of Concept
		93 Function, Site, Catchment Area
	Investigation	97 Street-End Bioretention Landscape
27	Headwaters	98 Construction
	27 Geological History of Gowanus	101 Ongoing Stewardship and Monitoring
	27 Human Context	108 Results and Outcomes
	31 Industrial History, 1861–2010	
		109 Ecological Solutions and Maintenance
	Problems and Conflicts	110 Conclusion
51	Evolving Landscape: Legacy of Industrial Development	
	56 Sanitary Engineering	Future Projections
	59 Hydrology	115 Understanding the Past to Plan for the Future
	59 Property Values and Evolving Land Use	119 Current Action Gowanus Tanks
		121 2021 City Planning Gowanus Plan
		127 Ongoing Research and Teaching
	Planning	
67	Conception	127 Lessons of the Sponge Park
	67 Sponge Park: Remediation and Open Space Strategy for the Gowanus Canal	129 Mapping Urban Flow: A Dynamic Cartographic Analysis of Hydrologic Cycles in New York City
	68 Vision-Plan Goals	132 Teaching
	69 Community Involvement/ Outreach	135 Coastal Urbanism and the Geophysical City
	71 Issues to Address	140 The Evolving City
	73 Cultural Preservation	144 Modernization of Gowanus
	76 Habitat	
	78 Plants and Processes of Phytoremediation	150 Epilogue
81	The Plan	
	81 Urban Stitch	
	86 Sponge Park Masterplan	