

NATURAL SYSTEMS

Goal: To strengthen and grow the natural capital within the Industrial District.

Description		Implementation	Partnerships			Additional Information		Tracking		
Tracking Number	Topic	Intervention [Action]	Recommended Mechanism for Implementation	Potential Partnerships	Sector [Municipal, Commercial, Residential, or Multiple]	Opportunity for Private Sector, Individual or Volunteer Initiative (Y/N)	Precedent Example (s)	Location (s)	Recommended Timeframe for Initial Action	Progress Tracking
Natural 001A (Part 1)	Riparian Zone	The public lands that abut the Sheldrake River are to be restored to a continuous natural area with the goal set of reducing the force, height and volume of floodwaters; creating places of respite, and restoring lost habitat. This work is to be done in coordination with other flood control measures in the Sheldrake River basin.	Plan	Army Corp. of Engineers, New York State Department of Environmental Conservation (NYSDEC); and Westchester County	Municipal	Yes	Menomonee River, Milwaukee, WI	Along the Sheldrake River	Long Term	Not Initiated
Natural 001B (Part 2)	Riparian Zone - Buffer Area	In addition to the above, create a buffer zone within the riparian zone that visually separates and shields the Washingtonville area from auto-related industries and the Village's waste transfer facility that are located along the Sheldrake.	Plan	Land Owners	Municipal	Yes	Menomonee River, Milwaukee, WI	Along the Sheldrake River	Long Term	Not Initiated
Natural 001C (Part 3)	Riparian Zone - Connections	Connect the riparian zone to the rest of the village's network of pedestrian walkway and bike paths	Plan		Municipal	Yes	Menomonee River, Milwaukee, WI	Along the Sheldrake River	Long Term	Not Initiated
Natural 002	Stormwater Management - Private Parcels	Reduce reliance on the municipal stormwater system by encouraging natural percolation through landscaping, pervious paving, open space protection, limits on vegetation clearing, and on-site retention.	Incentive Program	Land Owners	Multiple	Yes	<ul style="list-style-type: none"> Portland, Oregon: The Clean River Rewards Incentive and Discount (CRID) Program provides property owners with the opportunity to earn a discount on their monthly stormwater utility charge by treating stormwater runoff onsite. www.werf.org/liveablecommunities/toolbox/incentives.htm 	Throughout district	Intermediate Term	Not Initiated
Natural 003	Landscape Management for Storm Water	Encourage low-maintenance landscaping through an education campaign aimed at landowners and landscaping contractors. Highlight model landscapes. Convey the needs and benefits of stormwater techniques for flood mitigation.	Education Campaign	Land Owners	Multiple	Yes	Washington State Outreach Program - www.ecy.wa.gov/washington_waters/index.htm	Throughout district	Short Term	Not Initiated
Natural 004	Stormwater Management - Tree pits	At existing and new tree pits, divert runoff from the street via a curb cut into an enhanced tree pit - where engineered soils and native plant species are used to absorb water and filter associated pollutants.	Plan	New York State Department of Environmental Conservation (NYSDEC); and Westchester County	Municipal	No		Throughout district	Intermediate Term	Not Initiated
Nature 005	Stormwater Management - Retention /Detention Systems	Create underground stormwater retention /detention system to capture and storage stormwater which is collected from surrounding impervious areas. Surface storm water is diverted into subsurface vaults or systems of large diameter interconnected storage pipes or chambers. Stored water is then released directly through an outlet pipe back into natural waterway, such as the Sheldrake at rates designed to reduce peak water flows during storms to mimic pre-development conditions.	Plan	New York State Department of Environmental Conservation (NYSDEC); and Westchester County	Municipal	No		Throughout district in areas of frequent flooding such as the corner of Hoyt and Fenimore Streets	Intermediate Term	Not Initiated
Nature 006A	New Development - Stormwater Management (Part 1)	For new developments, a stormwater management system shall be provided so that the Peak Flow Rate at any exit point in the post-developed condition shall be less than or equal to the peak Flow Rate for that exit point in the pre-developed condition for the 2-year, 10-year, and 50-year / 24 hour storms.	Regulation	New York State Department of Environmental Conservation (NYSDEC); and Westchester County	Multiple	Yes	City of Madison, WI - http://www.madisonthecity.com/communitydevelopment/documents/STORMWATERMANAGEMENTORDINANCEwithamendments.pdf	Throughout district	Short Term	Not Initiated
Nature 006B	New Development - Stormwater Management (Part 2)	In addition to the peak flow requirement listed above, it shall be the responsibility of the developer to ensure that the run-off of the 100-year storm event does not create a flooding problem at any street, drive, or culvert within 500 feet of any run-off exit point from the property which did not pre-exist the development.	Regulation	New York State Department of Environmental Conservation (NYSDEC); and Westchester County	Multiple	Yes	City of Madison, WI - http://www.madisonthecity.com/communitydevelopment/documents/STORMWATERMANAGEMENTORDINANCEwithamendments.pdf	Throughout district	Short Term	Not Initiated