	Date:			
STORMWATER/LID REVIEW CHECKLIST	Project:			
Part 1: General Information				
*Definitions for terms used throughout this document can be Found in the 2004 CT Stormwater Quality Manual				
1. Development Details				
 Redevelopment of existing developed footprint. (no increase in impervious surface) Redevelopment of existing developed site with expansion of developed footprint New proposed developed site 				
2. Development Type				
Residential Commercial Industrial Mixed Use Other				
3. Proposed Site Development:				
Acreage of site:ac.				
Acreage of existing impervious surfaces:ac	% of site			
Acreage of site proposed to be disturbed:ac	% of site			
Acreage of total impervious surfaces:ac	% of site			
4. Waterbody and Watershed Information:				
Named waterbodies on or adjacent to the site:				
Regional and subregional watersheds site is located in:				
Are any waterbodies included on the CT Impaired Waters List?				
If yes, name the impairment				
and possible identified cause(s) and source (s):				

Part II: Site Planning and Design

1. Stormwater Objectives for Surface Flows (check all that apply)

Water Quality Treatment Peak flow control	Run-off volume reduction Stream channel protection
2. Stormwater Objectives for Gr	oundwater Recharge (check all tha
Run-off volume reduction	Stream channel protection

2.	Stormwater Objectives for Groundwater Recharge	(check all th	nat apply)
		(one on an a	at appij)

Run-off volume rec
Peak flow control

Stream channel protection
 Maintain groundwater resources

Storm event(s)	used	for #1	and	#2:
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2. Proposed site planning and Low Impact Design concepts used to minimize stormwater impacts: (check all that are addressed)

Development Designed to Minimizes Impacts to Natural Features

- Preservation of large areas of land in a natural vegetated state
- Vegetated buffers have been provided and enhanced.
- Designed to fit the terrain. Natural drainage patterns maintained
- Stormwater treatment designed to reduce the impact on natural wetlands and vernal pools.
- Stormwater management conducted at multiple locations
- Designed to limit land disturbance/impervious surfaces. reduced parking
 - reduced or zero lot line setbacks

Cluster/open space subdivision

- Conservation and/or restoration of native soils. Compacted soils addressed.
- Creation of steep slopes has been minimized.

shared driveways

- Landscaping practices promote native/drought resistant/non-invasive plantings
- Lawn areas are minimized and use of organic lawn care practices promoted.

Development Reduces and Addresses Stormwater Impacts

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Reduced street widths and lengths Alternative cul-de-sac design and parking lot islands Reduced parking lot size Elimination or reduction of sidewalk widths or placement on only one side Driveway alternatives incorporated; (shared, two track, permeable) Removal or breaks in curbing where feasible Use of permeable materials on roads, parking lots, sidewalks, driveways and patios Use of vegetated green roofs Infiltration of run-off through use of dry wells, infiltrators and permeable surfaces Impervious surfaces disconnected where possible; roof drains, pipe flow, curb openings Development has been designed to diffuse flow concentration by sheet flow, curbless design, perimeter swale/level spreader. etc.

The Water Quality Volume (WQV) has been identified and appropriately treated.

- Treatment of "first flush", 1" of rainfall
- Incorporation of rain gardens
- Soil amendments/filters

Use of Bioretention

Manmade wetland systems Grassed swales

Tree box filters Shallow vegetated depressions

Other initiatives/emerging technology

Source controls and pollution prevention measures have been incorporated to minimize pollutant levels. Oil, grease and debris traps/separators have been used where needed.

- Methods for the control of increases in the peak flows, volume and flood control addressed.
- Use of cisterns and/or rain barrels for rainwater harvesting

Short and Long Term Best Management Practices Addressed

Site maintenance for stormwater treatment controls during and post construction included.

- Maintenance access for all stormwater treatment practices included.
- Responsible party for implementation, maintenance and correction of stormwater

treatment practices has been designated and appropriate contact documentation submitted.

- Treatment practices designed to minimize the potential for nuisance insects and vectors.
- Incorporation of additional barriers, collection and treatment systems for regulated substances or other uses of concern; (dumpsters, loading docks, service areas)
- Water quality monitoring of stormwater treatment practices addressed

3. Critical Resources and Details Included: Existing and proposed resources and details, on or adjacent to the site, affecting stormwater treatment and design which are included on the plan and/or in support documentation as appropriate (*check all which are addressed*)

Existing and proposed modifications to Natural Features

- Wetlands, streams, ponds, vernal pools, shorelines and coastal resources
- Flood hazard, flood zones and flood ways
- Surface and groundwater quality classification of on-site and adjacent water bodies
- Site vegetative patterns, existing and proposed (including native tree cover)
- Site topography

Soils as defined by USDA/NRCS web soil surveys, including names and descriptions

Existing and Proposed Development, Infrastructure and Utilities

- Existing development and neighboring land uses
- Sub-grade walls, retaining walls, underground utilities and filled or excavated areas
- Wells, aquifers and public drinking water supplies
- Septic tanks and leach fields

Sebacks and Overlay Zones

Regulated setbacks overlay zones, critical areas and greenways established by authorities

Stormwater

A summary narrative explaining; overall stormwater management plan, changes to pre-and post-development peak runoff rates, volume and water quality for the site is provided.

- Drainage patterns and flow paths
- Watershed divides (pre and post) on map with associated acreages
- Impervious area and run-off coefficient
- Time of concentration flow paths and impervious coverage in each watershed are included.

Deep test holes, soil borings, infiltration percolation and/or permeability tests used for the design of bioretention/infiltration practices have been conducted and data/findings included.

- Potential pollutant sources (including erosive soils, landscaped area, commercial operations)
- Type of anticipated stormwater pollutants and removal percentages
- Other stormwater management infrastructure

Waivers

Waivers from local commissions for any stormwater and Low Impact Development (LID) practices have been identified. Include details:

Municipal Comments:

Additional LID practices that should be considered:

Additional stormwater design information required:

Additional site plan information that should be submitted:

Additional information necessary:

Part III: Stormwater Treatment Practices

1. Provide a diagram of the treatment train showing the practices used, their location, and how they are connected. Attach and label a separate sheet to checklist.

A. Practices Used (check all that apply)			
Primary Treatment	Secondary Treatment		
Stormwater Pond	Conventional		
Micropool extended detention pond	Dry detention basin		
Wet pond	Underground detention facilities		
Wet extended detention pond	Deep sump catch basins		
Multiple pond system	Oil/particle separators		
Pocket wetland	☐ Dry wells		
Stormwater Wetlands	Permeable pavement		
Shallow wetland	Vegetated filter strips		
Extended detention wetland	Grass drainage channels		
Pond/wetland system	Innovative/Emerging Technologies		
Infiltration Practices	Catch basin inserts		
Infiltration trench	Hydrodynamic separators		
Infiltration basin	☐ Media filters		
Filtering practices	Underground infiltration systems		
Surface sand filter	Alum injectors		
Underground sand filter			
Perimeter sand filter			
Organic filter			
Bioretention			
Water Quality Swales			
Dry swales			
☐ Wet swales			

- 1. If no primary treatment practice is used, explain why.
- 2. If treatment is not provided for all stormwater run-off, explain why.
- 3. Are other innovative emerging technologies proposed that are not listed? If yes, please describe technologies and provide appropriate information.

C. Stormwater Pollutants Generated and Removed (check and report rates on all that apply)		
Type of Pollutant Generated	Percent removal expected per treatment train	
	(attach additional sheets if necessary)	
Sediment		
Phosphorus		
☐ Nitrogen		
☐ Metals		
Hydro-carbons		
☐ Bacteria		
Other; specify		

Source(s) of removal rates: