

Rockland County Task Force on Water Resources Management

SIT Green Infrastructure Student Project

MEETING #2 AGENDA

Thursday, November 19, 2015 at 3pm, RC Planning Dept. (Building T)

With questions, please contact Patricie Drake, TF Coordinator (pdrake@co.rockland.ny.us).

1. GIS License Agreement Update
2. Review and Discuss Work Plan
3. Students Give update on their work
4. Review and Discuss Draft Proposed Criteria for Site Selection
5. Discuss Opportunities for Education and Outreach from Task Force
6. Discuss Student Presentation for Task Force
7. Next Steps and next meeting
8. Question and Answer

NYS DEC 2015 Stormwater Management Design Manual

- Link: <http://www.dec.ny.gov/chemical/29072.html>
- The New York State Stormwater Management Design Manual provides designers with a general overview on how to size, design, select, and locate stormwater management practices at a development site to comply with State stormwater performance standards. This manual is a key component of the Phase II State Pollution Discharge Elimination System (SPDES) general permit for stormwater runoff from construction activities from all sizes of disturbance.
- The 2015 updates include the addition of pond safety provisions in Chapter 6, updated isohyet maps in Chapter 4 and clarification of sizing criteria in Chapters 3, 4, 9, and 10 to be consistent with recent changes to Construction General Permit (GP-0-15-002).
- For other design standards and specifications, see the NYS DEC's "*Construction Stormwater Toolbox*" <http://www.dec.ny.gov/chemical/8694.html>

Work Plan:

FALL SEMESTER 2015: PLANNING-LEVEL ANALYSIS TASKS

1. Quantify the relative infiltration potential of various Green Infrastructure (GI) technologies that meet the stated goals of the TF
2. Consider a range of site and soil conditions in Rockland County, technology configurations according to NYS DEC recommendations
3. Use a USEPA hydrologic model, the National Stormwater Calculator
4. Design alternatives analysis quantifying infiltration potential:
 - a. For each impervious acre managed by GI technologies
 - b. For known combinations of soil type, drainage, topography existing in the County
 - c. Trade-offs amongst GI-specific design parameters
5. Literature review (academic publications) to establish expectations for how much infiltrated water actually augments groundwater

SPRING SEMESTER 2016: CONCEPTUAL DESIGN FOR CANDIDATE SITES IN ROCKLAND

1. Site selection to be made in consultation with TF Groundwater/Stormwater Subcommittee, after site visit(s).
2. Work with Rockland County GIS Dept., a member of TF, to identify: Soil types as they pertain to runoff potential, soil drainage, infiltration rates/characteristics, topography, land cover impervious, lawn, forest, etc.
 - a. Site selection criteria/site-specific data required to advance towards final design for any given site, e.g.:
 - i. In-site soil infiltration testing
 - ii. Depth to groundwater
 - iii. Minimum separation from building foundations
 - iv. Site constraints specific to each technology (e.g. no overhanging trees over permeable pavement; long-term maintenance requirements)
3. Overview of Permitting requirements
4. Deliver a written technical Final Report accompanied with a Presentation and a Conceptual Level Site Design which incorporates and identifies all design criteria, relevant codes, standards and includes technical drawings, plans, specifications and material costs.