

## STEP and SWAMP Study Sites

Facility	Drainage Area	Native Soil Texture	Study Duration	Number of Events Sampled	Winter Data Availability
<b>Stormwater Detention/Retention Systems</b>					
<b>Heritage Estates Pond, Richmond Hill</b>	52.4 ha. 90-100% residential	Clay loam	August 1992 to January 1995	33	Yes/grab samples
<a href="#">Pond-Wetland, Markham</a>	600 ha. 60% residential 7% commercial 33% open space	Silty-sand	November 1998 to December 1999, April to June 2000	30	Yes/grab samples
<a href="#">Harding Park Retrofit Pond, Richmond Hill</a>	16.8 ha. 90-100% residential	Clay till and some sand till	January 1996 to November 1997	37	Yes/grab samples
<a href="#">Dunkers Flow Balancing System, Toronto</a>	174 ha. 60% residential 40% industrial, institutional, commercial and open space	Sandy silt to sand	May 2000 to December 2002	110	No
<a href="#">Stormwater Wetland, Aurora</a>	82.4 ha 30% rural agricultural 61% residential 4% commercial/institutional 5% parks and open space	Sandy silt and clayey silt	July 1996 to June 1998	29	Yes/grab samples
<a href="#">Highway Stormwater Pond, Toronto</a>	129 ha. 75% transport 25% residential	Silty sand to sandy silt	June 1995 to September 1997	60	Yes/grab samples
<a href="#">Underground Storage Tank, Toronto</a>	114 ha (storm sewers) 93 ha (combined sewers) 85% residential 15% commercial and industrial	Sandy silt to sand	July 1995 to December 1996	46	Yes/grab samples in the inlet
<b>Erosion Sediment Control Pond</b>					
<a href="#">Greensborough ESC Pond, Markham</a>	88.8 ha Construction site	Peel clay	June 2004 to December 2005	23	Yes/dry weather grab, composite, discrete
<a href="#">Ballymore ESC Pond, Richmond Hill</a>	15.1 ha Residential, construction site	Sandy silt, clayey silt	August to October 2002, May to October 2003	15	No

Oil Grit Separators						
<a href="#">3-Chamber OGS, Markham</a>	4.0 ha Commercial development/parking lot	n/a	May 1997 to December 1998	60	Yes	
<a href="#">Stormceptor®, Toronto</a>	2.9 ha Big box retail parking lots	n/a	August 1997 to December 1998	44	Yes	
Infiltration/Exfiltration Trenches and Chambers						
<a href="#">Exfiltration Systems, Etobicoke, Toronto</a>	Princess Margaret Blvd: 30.5 ha low density residential	Clay to clay silt till over silty sand	August 1996 to September 1998	36	Yes	
	Queen Mary's Drive: 13.3 ha low density	Sand to sandy silt	August 1996 to September 1998	27	Yes	
	Braecrest Avenue: 2.4 ha low density residential	Silty clay and sandy loam	August 1996 to March 1997	10	Yes	
<a href="#">Exfiltration System, North York, Toronto</a>	64.0 ha low density residential	Silty sand	June 1998 to December 1999	13	No	
<a href="#">Infiltration Trench, Vaughan Residential</a>	265 m <sup>2</sup> , institutional parking lot	Silty Clay	April 2013 to June 2014	17	No	
<a href="#">Infiltration Trenches, Markham Elgin Mills Crossing</a>	2.85 ha residential	Sandy silt and silty sand	July 2010 to December 2012	Hydrology only	Yes	
<a href="#">Infiltration Chamber, Richmond Hill</a>	25,449 m <sup>2</sup>	Sandy silt	September 2008 to July 2011	Hydrology only	Yes	
<a href="#">Mayfield Industrial Park Infiltration Trenches 1-4, Caledon</a>	14,962 m <sup>2</sup> , 20,101m <sup>2</sup> , 23,268 m <sup>2</sup> , 14,420 m <sup>2</sup>	Clayey silt	July 2009 to June 2011	Hydrology only	Yes	
<a href="#">Bramport Infiltration Chamber, Brampton</a>	33,500 m <sup>2</sup> Roof, road, parking lot	Sandy silty clay	June 2009 to July 2011	Hydrology only	Yes	
Green Roofs						
<a href="#">York University CSE Building Green Roof, Toronto</a>	241 m <sup>2</sup> , 10% slope	140 mm growing media, vegetated with wild flowers	May 2003 to August 2005	21	No	
<a href="#">York University CSE Building Control Roof</a>	131 m <sup>2</sup> , 10% slope	n/a	May 2003 to August 2005	21	No	
<a href="#">Residential Green Roof with Sorbtive P Media</a>	14 m <sup>2</sup> , 2% slope	180 mm growing media vegetated with native plants	July 2009 to August 2010	22	No	

Permeable Pavements						
<a href="#">Kortright Permeable Interlocking Concrete Paver AquaPave®</a>	230 m <sup>2</sup> Parking lot	Silt to silty clay	June 2010 to June 2012	64	Yes	
<a href="#">Kortright Permeable Interlocking Concrete Paver Eco-Optiloc®</a>	230 m <sup>2</sup> Parking lot	Silt to silty clay	June 2010 to June 2012	64	Yes	
<a href="#">Kortright Pervious Concrete</a>	230 m <sup>2</sup> Parking lot	Silt to silty clay	June 2010 to June 2012	64	Yes	
<a href="#">Kortright Asphalt Control</a>	230 m <sup>2</sup> Parking lot	Silt to silty clay	June 2010 to June 2012	64	Yes	
<a href="#">Seneca Permeable Pavement Infiltrate</a>	286 m <sup>2</sup> Parking lot	Clay loam	September 2005 to April 2008	71	Yes	
Bioretention						
<a href="#">Earth Rangers Parking Lot Bioretention</a>	2,272 m <sup>2</sup> Parking lot	Silty clay	June 2011 to October 2012	26	Yes	
<a href="#">Kortright Bioretention</a>	265 m <sup>2</sup> , Parking lot	Silty clay	April 2013 to June 2014	16	No	
<a href="#">Seneca Bioretention Swale</a>	286 m <sup>2</sup> Parking Lot	Loam	September 2005 to April 2008	71	Yes	
Rainwater Harvesting						
<a href="#">Metro Label Printing Facility, Toronto</a>	968 m <sup>2</sup> Modified Bitumen Flat Roof	n/a	October 2007 to December 2009	7	Yes	
<a href="#">Brookside Public School, Toronto</a>	2879 m <sup>2</sup> Modified Bitumen Flat Roof	n/a	February 2009 to February 2010	1	No	
<a href="#">Minto High Rise Apartment, Toronto</a>	1295 m <sup>2</sup> Modified Bitumen Flat Roof	n/a	February 2009 to February 2010	5	Yes	
Low Impact Development Sites						
<a href="#">Commercial Facility, Markham</a>	17 ha Roof, Parking Lot, and Road	Silty Clay	June 2012 to August 2013	Hydrology Only	Yes	