

ENVIRONMENTAL COMPLIANCE APPROVAL For a Municipal Stormwater Management System

ECA Number: 021-S701 Issue Number: 1

Pursuant to the *Environmental Protection Act*, R.S.O 1990, c. E. 19 (EPA), and the regulations made thereunder and subject to the limitations thereof, this environmental compliance approval is issued under section 20.3 of Part II.1 of the EPA to:

Markham, The Corporation of the City of

101 Town Centre Blvd 0 Markham, Ontario L3R 9W3

For the following Sewage Works:

Markham Stormwater Collection and Treatment System

This Environmental Compliance Approval (ECA) includes the following:

Schedule

Description

- Schedule A System Information
- Schedule B Municipal Stormwater Management System Description
- Schedule C List of Notices of Amendment to this ECA: Additional Approved Works
- Schedule D General
- Schedule E Operating Conditions
- Schedule F Residue Management
- Appendix A Stormwater Management Criteria

Except where specified otherwise, all prior ECAs, or portions thereof, issued by the Director for Sewage Works described in section 1 of Schedule B are revoked and replaced by this Approval.

DATED at TORONTO this 14th day of February, 2025

Signature

J. Ahmed

Aziz Ahmed, P.Eng. Director, Part II.1, *Environmental Protection Act*

Schedule A: System Information				
System Owner	Markham, The Corporation of the City of			
ECA Number	021-S701			
System Name	Markham Stormwater Collection and Treatment System			
ECA Issue Date	February 14th, 2025			

1.0 ECA Information and Mandatory Review Date

ECA Issue Date	February 14th, 2025
Application for ECA Review Due Date	March 1, 2028

1.1 Pursuant to section 20.12 of the EPA, the Owner shall submit an application for review of the Approval no later than the Application for ECA Review Date indicated above.

2.0 Related Documents

2.1 Other Documents

Document Title	Version
Design Criteria for Sanitary Sewers, Storm Sewers, and Forcemains for Alterations Authorized under Environmental Compliance Approval	v.2.0, May 31, 2023

3.0 Stormwater Master Plan and Asset Management Plan

Document Title	Version
City-Wide Stream Erosion Master Study	2014
Update – FINAL (https://drive.google.com/file/d/1Q8nUt- Sg1NRKV0GfdwIFDewuOZGzOEKn/view?usp=sharing)	
Flood Control Program (multiple planning, funding, and technical reports/Class EAs - https://www.markham.ca/wps/portal/home/about/city-hall/city-projects- initiatives/current/stormwater-management/flood-control-program-stormwater-fee)	2014
Stormwater Management Facilities Retrofit	2016
Municipal Class EA (https://drive.google.com/file/d/1uGR_RK6qnW9xIWgZV9wV8XsZdZ- IUTu-/view?usp=sharing)	
City of Markham Storm Water Management Guidelines (https://drive.google.com/file/d/1iU_2Ey0gAgFkUjK34gwHkKrYpHnJNqhj/view?usp=sharing)	2016
City of Markham LID Guidelines (https://drive.google.com/file/d/1bSODhc0yxJyWAMsgkPHPR2p9Zor- pgTa/view?usp=sharing)	2018
City of Markham 2021 Asset Management Plan	2021

(https://www.markham.ca/wps/portal/home/about/Asset-Management/Asset-Management- Plan/01-Asset-Management-Plan)		
North Markham Future Urban Area Subwatershed Study (Berczy,. Bruce, Eckardt and Robinson Creeks)	2019	
Phase 1: https://drive.google.com/file/d/1S_naqeGYvIzhbMQ_Dbl- xkHga2VnpI_k/view?usp=sharing		
Phase 2: https://drive.google.com/file/d/17nnnGmBfx7MaZU2ZDqobAwHOdHYF- sU0/view?usp=sharing		
Phase 3: https://drive.google.com/file/d/1GrSiEHsSqdI72GC_FbmPhA2bFIRR- BV1/view?usp=sharing		

4.0 Operating Authority

System	Operating Authority
Markham Stormwater Collection and	The Corporation of the City of Markham
Treatment System	

Schedule B: Municipal Stormwater Management System Description				
System Owner	Markham, The Corporation of the City of			
ECA Number	021-S701			
System Name	Markham Stormwater Collection and Treatment System			
ECA Issue Date	February 14th. 2025			

1.0 System Description

1.1 The following is a summary description of the Sewage Works comprising the Municipal Stormwater Management System:

Overview

The Municipal Stormwater Management (SWM) System serving the City of Markham's drainage area, is a separate system for stormwater (i.e. designed not to convey sanitary sewage, combined sewage) within the Lake Ontario basin and the Don River, Highland Creek, Rouge River, and Duffins Creek watersheds. The Municipal SWM System consists of storm sewers, culverts, ditches, Stormwater Management Facilities, manufactured treatment devices, pumping stations and outlets.

This ECA covers the entire Municipal SWM System owned and operated by the City of Markham. This ECA does not cover municipally or privately owned wastewater works.

This Municipal SWM System connects to the City of Vaughan, City of Richmond Hill and City of Toronto systems.

Sewage Collection System

- 1.2 The Authorized System comprises:
 - 1.2.1 The Sewage Works described and depicted in each document or file identified in column 1 of Table B1.

Table B1: Infrastructure Map				
Column 1	Column 2			
Document or File Name	Date			
Markham Stormwater Map	March 2024			

- 1.2.2 Storm Sewers, Stormwater Management Facilities, stormwater pumping stations and Sewage Works associated with a Third Pipe Collection System that have been added, modified, replaced, or extended through authorization provided in a Schedule C Notice respecting this Approval, where Completion occurs on or after the date identified in column 2 of Table B1 for each document or file identified in column 1.
- 1.2.3 Storm Sewers, Stormwater Management Facilities and Sewage Works associated with a Third Pipe Collection System that have been added, modified, replaced, or extended through authorization provided by Schedule D of this Approval, where Completion occurs on or after the date identified in column 2 of Table B1 for each document or file identified in column 1.
- 1.2.4 Any Sewage Works described in conditions 1.3 through 1.8 below.

Stormwater Collection System

1.3 Categorization of the Authorized System at the date of issue of this Approval is as follows:

Table B2. Stormwater Collection System by Diameter							
System Type	Pipe Diameter	Length	System Totals				
System Type	(mm)	(km)	(km)				
Storm Sewers	Up to 250	10.13					
Storm Sewers	> 250 - 500	346.7					
Storm Sewers	> 500 - 1050	308.3					
Storm Sewers	> 1050	93.05					
Storm Sewers	Other (non. Circular)	6.04					
Total Storm Sewers			764.2				
Ditches / Swales	NA		244.5				
Total System Length (km)			1008.7				

Table B3. Summary of Stormwater Management Facilities by Type and Pumping Stations							
Facility Type	Basic	Normal	Enhanced	Other	Total	Total	Total
	Treatment	Treatment	Treatment	Treatment	Quality	Quantity	Number
	for	for	for	Level for	Control	Control	of
	Suspended	Suspended	Suspended	Suspended			Facilities
Solids* Solids * Solids * Solids**							
LID Facilities -						5	5
Retention							
(infiltration,							
evapotranspiration,							
harvest)	harvest)						
LID Facilities -							
Filtration							
Stormwater	3	5	49		57	44	64

Management Ponds							
 Wet (includes 							
wetlands, hybrids)							
Stormwater				51	51	51	51
Management Ponds							
- Dry							
Super Pipe /						5	5
Storage Facility							
Filtration MTD -							
Filter Unit							
Sedimentation MTD			6	42	48		48
- OGS							
Pumping Stations							1
Other							
Total Number of	3	5	55	93	156	105	174
Facilities							

* Basic, normal, and enhanced treatment correspond to 60%, 70% and 80% suspended solids removal on an annual average long-term basis, respectively.

** Treatment levels below 60% suspended solids removal on an annual average long-term basis.

Table B4. Third Pipe Collection System							
Description	Pipe Diameter (mm)	Length (km)	Quantity	System Totals			
Third Pipe Sewer	Up to 250	10.20	N/A				
Third Pipe Sewer	> 250 - 500	0.30	N/A				
Third Pipe Sewer	> 500	0.19	N/A				
Total				10.69 Km			
Other Infrastructure Components (e.g., storage tank)	N/A	N/A		0			

Table B5. Sewage Works on Private Land that are part of the Municipal Stormwater Treatment Train*			
Description Location ECA # (if applicable)			
N/A			

* Identifies privately owned Sewage Works that are not part of the Authorized System, but are part of a Stormwater Treatment Train

Stormwater Management Facilities

1.4 The Stormwater Management Facilities listed in Appendix B are part of the Authorized System:

Stormwater Pumping Stations

1.5 The following are identified Stormwater pumping stations in the Authorized System:

SWPS001	Enterprise	Pumping	Station
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Asset ID and Name	SWPS001 Enterprise Pumping Station
Site Location	Enterprise Blvd rail underpass, West of Rivis Road
Watershed/Subwatershed	Rouge River
Latitude and Longitude	Lat=43.85298; Long=-79.31545 [NAD 1983]
Coordinates (optional)	X_COORD= 635368.446685; Y_COORD= 4856951.58969 [UTM 17N]
Description	STORM WATER PUMPING STATION
Pumping Station Capacity	Flow: 404 L/s, total dynamic head: 7.5 m (two pumps working)
Equipment	[3] pumps (1 duty, 2 standby) [1] wet well of with dimension 7.5m X 5.3m. The station is connected to 900 mm diameter forcemain, discharging to constructed swale.
Emergency Storage	
Equipment: Associated controls and Appurtenances	The station contains acoustic louver/damper and exhaust stack muffler for noise control.
Overflow	N/A
Standby Power	200 kW diesel generator, and fuel tank size 2270 litres
Notes	Discharging to open swale west of rail underpass and north of Enterprise Blvd. Swale discharges to tributary of Rouge River. No former ECA available.

Third Pipe Collection System

1.6 The following are identified third pipe systems in the Authorized System.

Not Applicable

Asset ID and Name	As per City application Form 9 Stormwater Management
Location	System Information, 5.0 Third Pipe Collection System - Details
Watershed/Subwatershed	I hird pipe (foundation drain collection) assets are not tracked
Receiver of discharge	have a hydraulic conveyance function in areas with outlet
Outlet location	grade constraints, as opposed to having a treatment function.
Catchment Area	Individual third pipe works are identified on the stormwater
Treatment, if applicable	map showing surrounding urban drainage catchments,
Reference ECA(s), if	watersheds and receiving watercourses."
applicable	
Brief Description	See stormwater infrastructure map per Table B1 for individual third pipes.
Notes	1

Other Works:

1.7 The following works are part of Authorized System:

Table B6: Other Works					
Column 1	Column 2	Column 3	Column 4		
Asset ID / Name	Site Location (Latitude & Longitude)	Component	Description		
N/A					

Developer-Operated Facilities:

1.8 The following facilities are part of the Authorized System, have been constructed, and are being operated by the developer under the authority of an agreement entered into with the Owner of the system.

Table B7: Developer-Operated Facilities					
Asset ID	Type of Facility	Location	Developer Name		
N/A					

- 1.9 The Owner shall notify the Director, using the Director Notification Form, within thirty (30) days where the operation of any Facility identified in Table B7 has been:
 - 1.9.1 Incorporated into the overall Stormwater Management System and assumed by an Operating Authority identified in Schedule B of this Approval.
 - 1.9.2 Has been transferred from the developer identified in Table B7 to another party.

Transitional – Facilities with Individual ECAs

1.10 The following Facilities are connected to the Authorized System, but ownership has not been assumed by the Owner. These Sewage Works are not part of the Authorized System and will continue to have separate ECAs until the Facilities are assumed by the Owner.

Table B8: Facilities with Individual ECAs				
Asset ID	Type of Facility	Location	ECA Number	Developer Name
85	Wetland	Cornell Community - Area 5 - PH 1 Lots 9 & 10, Concession 9 Markham Town, Regional	0670- 62TKVU	Cornell Rouge Development Corp. c/o Madison Properties, 1120

Table B8: Facilities with Individual ECAs				
Asset ID	Type of Facility	Location	ECA Number	Developer Name
		Municipality of York (Major intersection HWY 407 and Donald Cousens Parkway)		Finch Avenue West, No. 100 Toronto, Ontario M3J 3H7
87	Wet Pond	404 North –Honda Blvd Part of Part 6, Ref Plan 65R- 29996 Lot Part of 27, 28, 29, Concession 3 City of Markham, Regional Municipality of York. (Major intersection: Honda Blvd and Mobis Drive)	4174- 7REQLF	11160 Woodbine Avenue Limited 15 Gormley Industrial Ave, Unit 3, Box 215 Whitchurch- Stouffville, ON, L0H 1G0
88	Wet Pond	404 North –Honda Blvd Part of Part 6, Ref Plan 65R- 29996 Lot Part of 27, 28, 29, Concession 3 City of Markham, Regional Municipality of York. (Major Intersection: Honda Blvd. and Woodbine Ave.)	4174- 7REQLF	11160 Woodbine Avenue Limited 15 Gormley Industrial Ave, Unit 3, Box 215 Whitchurch- Stouffville, ON, L0H 1G0
89	Wet Pond	Angus Glen West Village - Phase 1 Lot 24 and Block B & C Part 19 & 20, Concession 5 Markham Town, Regional Municipality of York. (Major intersection: Angus Glen Blvd. and Royal County Down Cres.)	5402- 7DYLDE	Angus Glen Development (2003) Ltd. 10080 Kennedy Rd Markham, Ontario, L6C 1N9
104	Wet Pond	Swan Lake Markham Community-Phase 5 Lots 16 and 17, Concession 8 Markham Town, Regional Municipality of York, Ontario (Major intersection: Swan Park Road and Williamson Road)	7027- 53LRES	Swan Lake Markham Community Limited 5694-4 Highway 7 East, P.O. Box 312 Markham, Ontario L3R 1B4
105	Wet Pond	22 Lakeside Vista Way, Markham, ON, L6E 1B4 (Major Intersection: Lakeside Vista Way and The Boardwalk Way)	3-1514-95- 007	Swan Lake Community Limited 60 Centurian Drive, Suite 219 Markham, ON, L3R 8T6
106	Wet Pond	South of Major Mackenzie Dr. E and East of Stollery Pond Cres.	0018-8V8S66	Angus Glen Development (2003) Ltd. 10080 Kennedy

Table B8: Facilities with Individual ECAs				
Asset ID	Type of Facility	Location	ECA Number	Developer Name
				Road Markham , ON, L6C 1N9
108	Wet Pond	North Greensborough - Pond C Lot Part of 20, Concession 8 Markham Town, Regional Municipality of York. (Major intersection: Major Mackenzie Dr. E and Delray Dr.)	3512- 8ACLQT	Digram Developments Inc. 327 Renfrew Dr, No. Suite 302 Markham, Ontario, L3R 9S8
123	Wet Pond	Highway 7, Sheridan Pond Part of Lot 10, Concession 5 City of Markham, Regional Municipality of York.	9354- 9B3GUW	1771107 Ontario Inc. 330 Highway 7 East, No. PH3 Richmond Hill, Ontario L4B 3P8
143	Wet Pond	Eaton Square Part of Lot 27 Lot 27, Concession 4 City of Markham, Regional Municipality of York L6C 1J4 (Major Intersection Victoria Square Blvd. and Elgin Mills Road)	7674- AUAKQ9	EP Victoria Square Manors Ltd. 125 Villarboit Cres Vaughan, Ontario L4K 4K2
146	Wet pond	Kylemore Communities South Village Phase 1A - York Downs Lot 16 and 17, Concession 5 City of Markham, Regional Municipality of York	0178- CLGRPV	KP (GP Markham Limited), as general partner for and on behalf of KP Limited Partnership 10060 Kennedy Road, Unit 200 Markham, Ontario L6C 0M4
147	Wet Pond	Union Village Phase 2 - York Downs Lot 16, 17, and 18, Concession 5 City of Markham, Regional Municipality of York L3R 0P1	2819-CATJ25	Metropia Minto (Sixteenth) Holdings Inc. 2300 Yonge Street, Unit 807 Toronto, Ontario M4P 1E4
160	Wet Pond	Berczy Roman Phase 1 – SWM Pond 1. West Half of Lot 24, Concession 4, Markham, Region of York	8141- C3VQF8	Mattamy (Berczy Glen) Ltd. 7880 Keele Street, Suite 400, Vaughan, ON, L4K 4G7

Table B8: Facilities with Individual ECAs				
Asset ID	Type of Facility	Location	ECA Number	Developer Name
149	Wet Pond	Berczy Azuria Phase 2 – SWM Pond 3. Part of Lot 22 & 23, Concession 4, Markham, Region of York	8514- CM5HJA	1212763 Ontario Ltd. 79 St. Clair Avenue East, Unit 201 Toronto, ON M4T 1M6
150	Wet Pond	Yorkton Phase 2 Part of Lot 1 Registered Plan 3555 Lots 6 and 7 Registered Plan 4113 Lot 16 and 17, Concession 5 City of Markham, Regional Municipality of York	5938- AWMTP6	Kylemore Communities (Yorkton) Ltd. 9980 Kennedy Rd, No. 200 Markham, Ontario L6C 0M4
151	Wet Pond	Lindwide Phase -5 Intersection of Highway 7 and Bur Oak Avenue Part of Lots 9 and 10, Concession 9 City of Markham, Regional Municipality of York	5299- CRXKBT	Lindwide Developments (Cornell) Limited 3625 Dufferin Street, Suite 200 Toronto, Ontario M3K 1Z2
152	Wet Pond	Berczy Azuria Phase 1 – SWM Pond 4. Part of Lot 22 & 23, Concession 4, Markham, Region of York	1644- CFLQYJ	1212763 Ontario Ltd. 79 St. Clair Avenue East, Unit 201 Toronto, ON M4T 1M6
153	Wet Pond	Berczy Roman Phase 2 – SWM Pond 2. West Half of Lot 24, Lot 25, Concession 4, Markham, Region of York	2593- CPHJN7	Mattamy (Berczy Glen) Ltd. 7880 Keele Street, Suite 400, Vaughan, ON, L4K 4G7
156	Wet Pond	Berczy Warden Phase 1 – SWM Pond 7. Part of Lot 22 & 23, Concession 4, Markham, Region of York	5921- CG3PCF	Berczy Warden Holdings Inc. 30 Floral Parkway, Unit 300 Concord, ON L4K 4R1
157	Wet Pond	Berczy Warden Phase 1 – SWM Pond 8. Part of Lot 22 & 23, Concession 4, Markham, Region of York	5921- CG3PCF	Berczy Warden Holdings Inc. 30 Floral Parkway, Unit 300 Concord, ON L4K 4R1
1001	Structure	Time Markham Centre Phase 1. Southeast corner of Highway 7	1026- 8HKK75	1771107 Ontario Inc. 330 Highway 7

	Table B8: Facilities with Individual ECAs				
Asset ID	Type of Facility	Location	ECA Number	Developer Name	
		and Warden Avenue. Part 05, Lot 10, Concession 5. Markham, Region of York		East, Suite PH3, Richmond Hill, ON, L4B 3P8	
1002	LID	Time Markham Centre Phase 1. Southeast corner of Highway 7 and Warden Avenue. Part 05, Lot 10, Concession 5. Markham, Region of York	1026- 8HKK75	1771107 Ontario Inc. 330 Highway 7 East, Suite PH3, Richmond Hill, ON, L4B 3P8	
1003	Structure	Markham Centre Phase 2. Southeast corner of Highway 7 and Warden Avenue. Lot 10, Concession 5. Markham, Region of York	1058-992HR9	1771107 Ontario Inc. 330 Highway 7 East, Suite PH3, Richmond Hill, ON, L4B 3P8	
1004	LID	Markham Centre Phase 2. Southeast corner of Highway 7 and Warden Avenue. Lot 10, Concession 5. Markham, Region of York	1058-992HR9	1771107 Ontario Inc. 330 Highway 7 East, Suite PH3, Richmond Hill, ON, L4B 3P8	
1009	Structure	Golden Lane Subdivision. East side of Old Kennedy Road. Part of Lot 1, Concession 6, Markham, Region of York	0962- 79MQJU	1477677 Ontario Inc. 1140 Sheppard Avenue W, Unit 12, Toronto, ON, M3K 2A2	
1013	LID	South East Community Centre Green Road (Vanni Avenue) Vanni Avenue Part of Lot 5, Concession 7 City of Markham, Regional Municipality of York	4643- A4SQF7	Neamsby Investments Inc. 7501 Keele Street, No. 100 Vaughan, Ontario L4K 1Y2	
1014	Structure	Village of Fairtree East Lot 1,2,3, Concession 8 City of Markham (Major intersection: Kirkham Dr. and Denison Street)	3265- BEERBN	Forest Bay Homes Ltd. 11 Headdon Gate, No.3 Richmond Hill, ON, L4C 9W9	
1015	Structure	Village of Fairtree East Lot 1,2,3, Concession 8 City of Markham (Major intersection: Kirkham Dr. and Steeles Ave East)	3265- BEERBN	Forest Bay Homes Ltd. 11 Headdon Gate, No.3 Richmond Hill, ON, L4C 9W9	
1021	Structure	Parts of Lots 16 & 17, Concession 6	0329- 8TBPEF	Upper Unionville Inc.	

Table B8: Facilities with Individual ECAs				
Asset ID	Type of Facility	Location	ECA Number	Developer Name
		Lot 16 & 17, Concession 6 Markham Town, Regional Municipality of York		600 Applewood Cres Vaughan, Ontario L4K 4B4
1026	LID	Gemini Urban Design (Houghton) Corp. Residential Subdivision Lot 11, Concession 8 City of Markham, Regional Municipality of York	6708- 9MRNTG	Gemini Urban Design (Houghton) Corp. 1485 Whitehorse Road Toronto, Ontario M3J 2Z2
1027	LID/ Structure	Village of Fairtree East Lot 1,2,3, Concession 8 City of Markham	3265- BEERBN	Forest Bay Homes Ltd. 11 Headdon Gate, No.3 Richmond Hill, ON, L4C 9W9

- 1.11 The Owner shall notify the Director, using the Director Notification Form, within thirty (30) days where the ownership of any Facility identified in Table B8 has been assumed by the Owner.
- 1.12 The Director Notification required in condition 1.11 shall include:
 - 1.12.1 A request from the developer to revoke the ECA identified in Table B8; or
 - 1.12.2 A copy of an agreement or other documentation that demonstrates that the municipality has assumed ownership of the Facility and that the ECA identified in Table B8 should be revoked.

Additional Approved Sewage Works			
System Owner	Markham, The Corporation of the City of		
ECA Number	021-S701		
System Name	Markham Stormwater Collection and Treatment System		
ECA Issue Date	February 14th. 2025		

1.0 General

1.1 Table C1 provides a list of all notices of amendment to this Approval that have been issued pursuant to clause 20.3(1) of the EPA that impose terms and conditions in respect of the Authorized System after consideration of an application by the Director (Schedule C Notices).

Table C1: Schedule C Notices				
Column 1 Issue #	Column 2 Issue Date	Column 3 Description	Column 4 Status	Column 5 DN#
N/A	N/A	N/A	N/A	N/A

Schedule D: General			
System Owner	Markham, The Corporation of the City of		
ECA Number	021-S701		
System Name	Markham Stormwater Collection and Treatment System		
ECA Issue Date	February 14th, 2025		

1.0 Definitions

1.1 For the purpose of this Approval, the following definitions apply:

"Adverse Effect(s)" has the same meaning as defined in section 1 of the EPA.

"Alteration(s)" includes the following, in respect of the Authorized System, but does not include repairs to the system:

- a) An extension of the system,
- b) A replacement or retirement of part of the system, or
- c) A modification of, addition to, or enlargement of the system.

"Appendix A" means Appendix A of this Approval.

"Approval" means this Environmental Compliance Approval including any Schedules attached to it.

"Appurtenance(s)" has the same meaning as defined in O. Reg. 525/98 (Approval Exemptions) made under the OWRA.

"Authorized System" means the Sewage Works comprising the Municipal Stormwater Management System authorized under this Approval".

"Class Environmental Assessment Project" means an Undertaking that does not require any further approval under the EAA if the proponent complies with the process set out in the Municipal Engineers Association Class Environmental Assessment document, (Municipal Class Environmental Assessment approved by the Lieutenant Governor in Council on October 4, 2000 under Order in Council 1923/2000), as amended from time to time.

"**Combined Sewer(s)**" means pipes that collect and transmit both sanitary Sewage and other Sewage from residential, commercial, institutional, and industrial buildings and facilities and Stormwater through a single-pipe system, but does not include Nominally Separate Sewers.

"**Completion**" means substantial performance as described in s.2 (1) of the *Construction Act*, R.S.O. 1990, c. C.30.

"**Compound of Concern**" means a Contaminant that is discharged from the Facility in an amount that is not negligible.

"Contaminant" has the same meaning as defined in section 1 of the EPA.

"CSO" means a combined sewer overflow which is a discharge to the environment at designated location(s) from a Combined Sewer or Partially Separated Sewer that usually occurs as a result of precipitation when the capacity of the Sewer is exceeded. An intervening time of twelve hours or greater separating a CSO from the last prior CSO at the same location is considered to separate one overflow Event from another.

"CWA" means the Clean Water Act, R.S.O. 2006, c.22.

"Design Criteria" means the design criteria set out in the Ministry's publication "Design Criteria for Sanitary Sewers, Storm Sewers and Forcemains for Alterations Authorized under Environmental Compliance Approval", (as amended from time to time).

"Design Guidelines for Sewage Works" means the Ministry document titled "Design Guidelines for Sewage Works", 2008 (as amended from time to time).

"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of EPA (Environmental Compliance Approvals).

"Director Notification Form" means the most recent version of the Ministry form titled Director Notification – Alterations to a Municipal Stormwater Management System, as obtained directly from the Ministry or from the Ministry's website.

"District Manager" means the district manager or a designated representative of the Local Ministry Office.

"EAA" means the Environmental Assessment Act, R.S.O. 1990, c. E.18.

"EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19.

"ESC" means erosion and sediment control.

"Facility" means the entire operation located on the property where the Sewage Works or equipment is located.

"Form SW1" means the most recent version of the Ministry form titled Record of Future Alteration Authorized for Storm Sewers/Ditches/Culverts as obtained directly from the Ministry or from the Ministry's website.

"Form SW2" means the most recent version of the Ministry form titled Record of Future Alteration Authorized for Stormwater Management Facilities as obtained directly from the Ministry or from the Ministry's website.

"Form SW3" means the most recent version of the Ministry form titled Record of Future Alteration Authorized for Third Pipe Collection Systems as obtained directly from the Ministry or from the Ministry's website.

"Licensed Engineering Practitioner" means a person who holds a licence, limited licence, or temporary licence under the *Ontario Professional Engineers Act* R.S.O. 1990, c. P.28.

"LID" means "low impact development" a Stormwater management strategy that seeks to mitigate the impacts of increased runoff and Stormwater pollution by managing runoff as close to its source as possible. LID comprises a set of site design strategies that minimize runoff and distributed, small scale structural practices that mimic natural or predevelopment hydrology through the processes of infiltration, evapotranspiration, harvesting, filtration, and detention of Stormwater.

"Local Ministry Office" means the local office of the Ministry responsible for the geographic area where the Authorized System is located.

"Minister" means the Minister of the Ministry or such other member of the Executive Council as may be assigned the administration of the EPA and OWRA under the *Executive Council Act*, R.S.O. 1990, c. E.25.

"Ministry" means the Ministry of the Minister and includes all employees or other persons acting on its behalf.

"Monitoring Plan" means the monitoring plan prepared and maintained by the Owner under condition 4.1 in Schedule E of this Approval.

"MTD" means manufactured treatment device.

"**Municipal Drain**" has the same meaning as drainage works as defined in section 1 of the *Drainage Act* R.S.O. 1990, c. D.17.

"Municipal Drainage Engineer's Report" means a report signed by a drainage engineer employed or contracted by a municipality and approved in writing by municipal council or equivalent.

"Municipal Sewage Collection System" means all Sewage Works, located in the geographical area of a municipality, that collect and transmit sanitary Sewage and are owned, or may be owned pursuant to an agreement with a municipality entered into under the *Planning Act* or *Development Charges Act*, 1997, by:

- a) A municipality, a municipal service board established under the *Municipal Act*, 2001 or a city board established under the *City of Toronto Act*, 2006; or
- A corporation established under sections 9, 10, and 11 of the *Municipal Act*, 2001 in accordance with section 203 of that Act or under sections 7 and 8 of the *City of Toronto Act*, 2006 in accordance with sections 148 and 154 of that Act.

"Municipal Stormwater Management System" means all Sewage Works, located in the geographical area of a municipality, that collect, transmit, or treat Stormwater and are owned, or may be owned pursuant to an agreement entered into under the *Planning Act* or *Development Charges Act*, 1997, by:

- a) A municipality, a municipal service board established under the *Municipal Act*, 2001 or a city board established under the *City of Toronto Act*, 2006; or
- b) A corporation established under sections 9, 10, and 11 of the *Municipal Act*, 2001 in accordance with section 203 of that Act or under sections 7 and 8 of the *City of Toronto Act*, 2006 in accordance with sections 148 and 154 of that Act.

"**Natural Environment**" has the same meaning as defined in section 1 of the EPA.

"Nominally Separate Sewer(s)" mean Separate Sewers that also have connections from roof leaders and foundation drains, and are not considered to be Combined Sewers.

"OGS" means Oil and Grit Separator(s).

"Operating Authority" means, in respect of the Authorized System, the person, entity, or assignee that is given responsibility by the Owner for the operation, management, maintenance, or Alteration of the Authorized System, or a portion of the Authorized System.

"Owner" for the purposes of this Approval means The Corporation of the City of Markham, and includes its successors and assigns.

"OWRA" means the Ontario Water Resources Act, R.S.O. 1990, c. O.40.

"O&M Manual" means the operation and maintenance manual prepared and maintained by the Owner under condition 3.2 in Schedule E of this Approval.

"Partially Separated Sewer(s)" means Combined Sewers that have been retrofitted to transmit sanitary Sewage but in which roof leaders or foundation drains still contribute Stormwater inflow to the Partially Separated Sewer.

"Pre-development" means the more stringent of a site's:

- a) Existing condition prior to proposed development or construction activities; or
- b) Condition as defined by the local municipality.

"Prescribed Person" means a person prescribed in O. Reg. 208/19 (Environmental Compliance Approval in Respect of Sewage Works) for the purpose of ss. 20.6 (1) of the EPA, and where the alteration, extension, enlargement, or replacement is carried out under an agreement with the Owner.

"**Privately Owned Stormwater Works**" means Stormwater Sewage Works on private land that are privately owned and, while not part of the Authorized System, are considered part of a Stormwater Treatment Train.

"Pumping Station Capacity" means the design Peak Hourly Flow of Sewage which the Sewage pumping station is designed to handle.Qualified Person (QP)" means persons who have obtained the relevant education and training and have demonstrated experience and expertise in the areas relating to the work required to be carried out by this Approval.

"Schedule C Notice(s)" means notice(s) of amendment to this Approval issued pursuant to clause 20.3(1) of the EPA that imposes terms and conditions in respect of the Authorized System after consideration of an application by the Director.

"Separate Sewer(s)" means pipes that collect and transmit sanitary Sewage and other Sewage from residential, commercial, institutional, and industrial buildings.

"Sewage" has the same meaning as defined in section 1 of the OWRA.

"Sewage Works" has the same meaning as defined in section 1 of the OWRA.

"**Sewer**" has the same meaning as defined in section 1 of O. Reg. 525/98 under the OWRA.

"Significant Drinking Water Threat" has the same meaning as defined in section 2 of the CWA.

"Significant Snowmelt Event(s)" means the melting of snow at a rate which adversely affects the performance and function of the Authorized System and/or the Sewage Treatment Plant(s) identified in Schedule A of this Approval.

"Significant Storm Event(s)" means a minimum of 25 mm of rain in any 24 hours period.

"Source Protection Authority" has the same meaning as defined in section 2 of the CWA.

"Source Protection Plan" means a drinking water source protection plan prepared under the CWA.

"Spill(s)" has the same meaning as defined in subsection 91(1) of the EPA.**"SSO**" means a sanitary sewer overflow which is a discharge of Sewage from a Separate Sewer or Nominally Separate Sewer to the environment from designated location(s) in the Authorized System.

"Standard Operating Policy for Sewage Works" means the standard operating policy developed by the Ministry to assist in the implementation of Source Protection Plan policies related to Sewage Works and providing minimum design and operational standards and considerations to mitigate risks to sources of drinking water, as amended from time to time.

"Storm Sewer" means Sewers that collect and transmit, but not exfiltrate or lose by design, Stormwater resulting from precipitation and snowmelt.

"**Stormwater**" means rainwater runoff, water runoff from roofs, snowmelt, and surface runoff.

"Stormwater Management Facility(ies)" means a Facility for the treatment, retention, infiltration, or control of Stormwater.

"Stormwater Management Planning and Design Manual" means the Ministry document titled "Stormwater Management Planning and Design Manual", 2003 (as amended from time to time).

"Stormwater Treatment Train" means a series of Stormwater Management Facilities designed to meet Stormwater management objectives (e.g., Appendix A) for a given area, and can consist of a combination of MTDs, LIDs and end-of-pipe controls.

"TRCA" means the Toronto Region Conservation Authority.

"Third Pipe Collection System" means Sewage Works designed to collect and transmit foundation drainage and/or groundwater to a receiving surface water or dry well.

"Uncommitted Reserve Hydraulic Capacity" means uncommitted reserve capacity as described in the Ministry document titled "D-5-1 Calculating and Reporting Uncommitted Reserve Capacity at Sewage and Water Treatment Plants" (as amended from time to time).

"Undertaking" has the same meaning as in the EAA.

"Vulnerable Area(s)" has the same meaning as in the CWA.

2.0 General Conditions

2.1 The works comprising the Authorized System shall be constructed, installed, used, operated, maintained, replaced, or retired in accordance with the conditions of this Approval, which includes the following Schedules:

Schedule A – System Information

- Schedule B Municipal Stormwater Management System Description
- Schedule C List of Notices of Amendment to this ECA
- Schedule D General
- Schedule E Operating Conditions
- Schedule F Residue Management

Appendix A – Stormwater Management Criteria

- 2.2 The issuance of this Approval does not negate the requirements of other regulatory bodies, which includes but is not limited to, the Ministry of Northern Development, Mines, Natural Resources and Forestry and the local Conservation Authority.
- 2.3 Where there is a conflict between a provision of any document referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence. Where there is a conflict between the information in a Schedule C Notice and another section of this Approval, the document bearing the most recent date shall prevail.

- 2.4 The Owner shall ensure that any person authorized to carry out work on or operate any aspect of the Authorized System is provided with a print or electronic copy of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- 2.5 The conditions of this Approval are severable. If any condition of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such condition to other circumstances and the remainder of this Approval shall not be affected thereby.

3.0 Alterations to the Municipal Stormwater Management System

- 3.1 For greater certainty, the Alterations authorized under this Approval are limited to Sewage Works comprising the Authorized System which does not include municipally or Privately Owned Stormwater Works:
 - 3.1.1 On industrial, commercial, or institutional land, except when it is on municipally owned land;
 - 3.1.2 Serving a single parcel of land, unless the stormwater management facility is located on a municipally owned park, administrative building, cultural facility (i.e., museum, art gallery), or community center;
 - 3.1.3 That are operated as waste disposal sites defined under the EPA or snow dump / melt facilities; or,
 - 3.1.4 That propose to collect, store, treat, or discharge stormwater containing substances or pollutants (other than Total Suspended Solids, or oil and grease) detrimental to the environment or human health.
- 3.2 Any Schedule C Notice shall provide authority to alter the Authorized System in accordance with the conditions of this Approval.
- 3.3 All Schedule C Notices issued by the Director for the Municipal Stormwater Management System shall form part of this Approval.
- 3.4 The Owner and a Prescribed Person shall ensure that the documentation required through conditions in this Approval and the documentation required in the Design Criteria are prepared for any Alteration of the Authorized System.
- 3.5 The Owner shall notify the Director within thirty (30) calendar days of placing into service or Completion of any Alteration of the Authorized System which had been authorized:

- 3.5.1 Under Schedule D to this Approval where the Alteration results in a change to Sewage Works specifically described in Schedule B of this Approval;
- 3.5.2 Through a Schedule C Notice respecting Sewage Works other than Storm Sewers; or
- 3.5.3 Through another approval that was issued under the EPA prior to the issue date of this Approval.
- 3.6 The notification requirements set out in condition 3.5 do not apply to any Alteration in respect of the Authorized System which:
 - 3.6.1 Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98;
 - 3.6.2 Constitutes maintenance or repair of the Authorized System; or
 - 3.6.3 Is a Storm Sewer, ditch, or culvert authorized by condition 4.1 of Schedule D of this Approval.
- 3.7 The Owner shall notify the Director within ninety (90) calendar days of:
 - 3.7.1 The discovery of existing Sewage Works not described or depicted in Schedule B, or
 - 3.7.2 Additional or revised information becoming available for any Sewage Works described in Schedule B of this Approval.
- 3.8 The notifications required in condition 3.5 and 3.7 shall be submitted to the Director using the Director Notification Form.
- 3.9 The Owner shall ensure that any chemicals, coagulants, or polymers used in the Authorized System have obtained written approval from the Director prior to use, unless required for spill control or spill clean-up.
- 3.10 The Owner shall ensure that an ESC plan is prepared, and temporary ESC measures are installed in advance of and maintained during any construction activity on the Authorized System, subject to the following conditions:
 - 3.10.1 Inspections of ESC measures are to be conducted at a frequency specified per the ESC plan, for dry weather periods (active and inactive construction phases), after Significant Storm Events and Significant Snowmelt Events, and after any extreme weather events.

- 3.10.2 Any deficiencies shall be addressed, and any required maintenance actions(s) shall be undertaken as soon as practicable once they have been identified.
- 3.10.3 Inspections and maintenance of the temporary ESC measures shall continue until they are no longer required.
- 3.11 The Owner shall ensure that records of inspections required by this Approval during any construction activity, including those required under condition 3.10:
 - 3.11.1 Include the name of the inspector, date of inspection, visual observations, and the remedial measures, if any, undertaken to maintain the temporary ESC measures.
 - 3.11.2 Be retained with records relating to the Alteration that the construction relates to, such as the form required in conditions 4.4.1, 5.5.1, and 6.2.1 of Schedule D, or the Schedule C Notice.
 - 3.11.3 Be retrievable and made available to the Ministry upon request.
- 3.12 The document(s) or file(s) referenced in Table B1 of Schedule B of this Approval shall:
 - 3.12.1 Be retained by the Owner;
 - 3.12.2 Include at a minimum:
 - a) Identification of Storm Sewers, which shall include the following information:
 - i Location relative to street names or easements; and
 - ii Sewer diameters.
 - b) Identification of existing municipally owned Stormwater Sewage Works, including but not limited to ditches, swales, culverts, outlets, Stormwater Management Facilities, sedimentation MTD (for example oil grit separators), filtration MTD, LID, end of pipe controls, Third Pipe Collection Systems, and pumping stations, including any applicable Asset IDs.
 - c) Identification of the main tributaries and receiving water bodies that the Sewage Works discharge to.
 - d) Delineation of municipal, watershed, and subwatershed boundaries, as available.

- e) Identification of the storm sewersheds for each outlet.
- f) Identification of any source protection Vulnerable Areas.
- g) Identification of any Sewage Works that receive SSOs or CSOs.
- 3.12.3 Be updated to include:
 - a) Alterations authorized under Schedule D of this Approval or through a Schedule C Notice within twelve (12) months of the Alteration being placed into service.
 - b) Updates to information contained in the document(s) or files(s) not associated with an Alteration within twelve (12) months of becoming aware of the updated information.
- 3.13 An Alteration is not authorized under Schedule D of this Approval for projects that impact Indigenous treaty rights or asserted rights where:
 - 3.13.1 The project is on Crown land or would alter access to Crown land;
 - 3.13.2 The project is in an open or forested area where hunting, trapping or plant gathering occur;
 - 3.13.3 The project involves the clearing of forested land unless the clearing has been authorized by relevant municipal, provincial, or federal authorities, where applicable;
 - 3.13.4 The project alters access to a water body;
 - 3.13.5 The proponent is aware of any concerns from Indigenous communities about the proposed project and these concerns have not been resolved; or,
 - 3.13.6 Conditions respecting Indigenous consultation in relation to the project were placed in another permit or approval and have not been met.
- 3.14 No less than 60 days prior to construction associated with an Alteration the Director may notify the Owner in writing that a project is not authorized through Schedule D of this Approval where:
 - 3.14.1 Concerns regarding treaty rights or asserted rights have been raised by one or more Indigenous communities that may be impacted by the Alteration; or

- 3.14.2 The Director believes that it is in the public interest due to site specific, system specific, or project specific considerations.
- 3.15 Where an Alteration is not authorized under condition 3.13 or 3.14 above:
 - 3.15.1 An application respecting the Alteration shall be submitted to the Ministry; and,
 - 3.15.2 The Alteration shall not proceed unless:
 - a) Approval for the Alteration is granted by the Ministry (i.e., a Schedule C Notice); or,
 - b) The Director provides written notice that the Alteration may proceed in accordance with conditions in Schedule D of this Approval.

4.0 Authorizations of Future Alterations to Storm Sewers, Ditches, or Culverts -Additions, Modifications, Replacements and Extensions

- 4.1 The Owner or a Prescribed Person may alter the Authorized System by adding, modifying, replacing, or extending a Storm Sewer, ditch, or culvert within the Authorized System subject to the following conditions and conditions 4.2 and 4.3 below:
 - 4.1.1 The design of the addition, modification, replacement, or extension:
 - a) Has been prepared by a Licensed Engineering Practitioner;
 - b) Has been designed only to collect and transmit Stormwater;
 - c) Has not been designed to collect or treat any sanitary Sewage;
 - d) Has not been designed to collect, store, treat, control, or manage groundwater, unless for the purpose of foundation drains, road subdrains, or LIDs;
 - e) Satisfies the Design Criteria or any municipal criteria that have been established that exceed the minimum requirements set out in the Design Criteria
 - f) Satisfies the standards set out in Ontario Provincial Standard Specifications (OPSS) and Ontario Provincial Standard Drawings (OPSD), as applicable to ditches and culverts;

- g) Is consistent with or otherwise addresses the design objectives contained within the Design Guidelines for Sewage Works;
- h) Is planned, designed, and built to be consistent with the Stormwater Management Planning and Design Guidance Manual. If there is a conflict with Appendix A of this Approval, then Appendix A shall prevail; and
- Includes design considerations to protect sources of drinking water, including those set out in the Standard Operating Policy for Sewage Works, and any applicable local Source Protection Plan policies.
- 4.1.2 The addition, modification, replacement, or extension shall be designed so that it will:
 - a) Not adversely affect the ability to maintain a gravity flow in the Authorized System without overflowing or increase surcharging in any maintenance holes as per design; and
 - b) Provide smooth flow transition to existing gravity Storm Sewers.
- 4.1.3 The Alteration shall not result in:
 - a) Adverse Effects; or
 - b) A deterioration of the approved effluent quality or quantity of downstream Stormwater Management Facilities which results in not being able to achieve the overall Stormwater performance criteria per Appendix A.
- 4.1.4 The Storm Sewer, ditch or culvert addition, modification, replacement, or extension is wholly located within the municipal boundary over which the Owner has jurisdiction or there is a written agreement in place with the adjacent property owner respecting the Alteration and resulting Sewage Works.
- 4.1.5 The Owner consents in writing to the addition, modification, replacement, or extension.
- 4.1.6 A Licensed Engineering Practitioner has verified in writing that the addition, modification, replacement, or extension meets the requirements of conditions 4.1.1 a) to h), 4.3.9, and 4.3.10.

- 4.1.7 The Owner has verified in writing that the addition, modification, replacement, or extension has complied with inspection and testing requirements in the Design Criteria.
- 4.1.8 The Owner has verified in writing that the addition, modification, replacement, or extension meets the requirements of conditions 4.1.1 i), 4.1.2 to 4.1.6, 4.3.7, and 7.2.
- 4.2 The addition of Storm Sewers or ditches can be constructed but not operated until the Stormwater Management Facilities required to service the new Storm Sewers or ditches are in operation.
- 4.3 The Owner or a Prescribed Person is not authorized to undertake an Alteration described above in condition 4.1 where the Alteration relates to the addition, modification, replacement, or extension of a Storm Sewer that:
 - 4.3.1 Passes under or through a body of surface water, unless trenchless construction methods are used or the local Conservation Authority has authorized an alternative construction method.
 - 4.3.2 Has a nominal diameter greater than 3,000 mm, or equivalent sizing.
 - 4.3.3 Is a Combined Sewer.
 - 4.3.4 Is a concrete channel.
 - 4.3.5 Is designed to, at any time, transmit, store, or control sanitary Sewage.
 - 4.3.6 Converts rural road cross section ditches to curb, gutter, and Storm Sewers if the Stormwater volume and/or peak flow is increased and no water quality treatment is planned or demonstrated to be achieved, in accordance with this Approval and Appendix A, to offset the increase in Stormwater.
 - 4.3.7 Results in new discharges or increased discharges to a Municipal Drain without written approval by the Owner and a signed Municipal Drainage Engineer's Report in accordance with the *Drainage Act* R.S.O. 1990, c. D.17.
 - 4.3.8 Establishes a new outlet with direct discharge into the Natural Environment without monitoring in accordance with this Approval and without achieving the requirements set in Appendix A.
 - 4.3.9 Increases Stormwater flow of an existing Storm Sewer or ditch without achieving water quality criteria set in Appendix A in accordance with this Approval unless the existing downstream

Municipal Stormwater Management System has sufficient residual transmission and treatment capacity to accommodate the additional Stormwater.

- 4.3.10 Increases local hydraulic capacity of an existing Storm Sewer or ditch to accommodate new Stormwater flows unless the existing downstream Municipal Stormwater Management System has sufficient residual hydraulic capacity to accommodate the additional Stormwater.
- 4.3.11 Connects to another Municipal Stormwater Management System, unless:
 - a) Prior to construction, the Owner of the Authorized System obtains written consent from the Owner or Owner's delegate of the Municipal Stormwater System being connected to; and
 - b) The Owner of the Authorized System retains a copy of the written consent from the Owner or Owner's delegate of the Municipal Stormwater Management System being connected to as part of the record that is recorded and retained under condition 4.4.
- 4.3.12 Is part of an Undertaking in respect of which:
 - a) A request under s.16(6) of the EAA has been made, namely a request that the Minister make an order under s.16;
 - b) The Minister has made an order under s.16; or
 - c) The Director under that EAA has given notice under s.16.1 (2) that the Minister is considering making an order under s.16.
- 4.4 The consents and verifications required in conditions 4.1 and 4.3, if applicable, shall be:
 - 4.4.1 Recorded on Form SW1, prior to the Storm Sewer, ditch, or culvert addition, modification, replacement, or extension being placed into service; and
 - 4.4.2 Retained for a period of at least ten (10) years by the Owner.
- 4.5 For greater certainty, the verification requirements set out in condition 4.4 do not apply to any Alteration in respect of the Authorized System which:
 - 4.5.1 Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98; or

4.5.2 Constitutes maintenance or repair of the Authorized System.

5.0 Authorizations of Future Alterations to Stormwater Management Facilities -Additions, Modifications, Replacement, and Extensions

- 5.1 Subject to conditions 5.2 and 5.3, the Owner or a Prescribed Person may alter the Stormwater Management Facilities in the Authorized System by adding, modifying, replacing, or extending the following components:
 - 5.1.1 Rooftop storage
 - 5.1.2 Parking lot storage
 - 5.1.3 Superpipe storage
 - 5.1.4 Reduced lot grading
 - 5.1.5 Roof leader to ponding area
 - 5.1.6 Roof leader to soakaway pit
 - 5.1.7 Infiltration trench
 - 5.1.8 Engineered grassed swales / bioswale
 - 5.1.9 Pervious pipes
 - 5.1.10 Pervious catchbasins
 - 5.1.11 Vegetated filter strips
 - 5.1.12 Natural buffer strips
 - 5.1.13 Green roofs/Rooftop gardens
 - 5.1.14 Wet pond
 - 5.1.15 Engineered wetland
 - 5.1.16 Dry pond
 - 5.1.17 Hybrid Facility
 - 5.1.18 Infiltration basin
 - 5.1.19 Filtration MTD
 - 5.1.20 Sedimentation MTD OGS

- 5.1.21 LID that relies on one or more of the following mechanisms to achieve treatment and control:
 - a) Evapotranspiration;
 - b) Infiltration into the ground; or
 - c) Filtration.
- 5.1.22 Any other Stormwater Management Facilities where the Director has provided authorization in writing to proceed with the Alteration.
- 5.2 Any Alteration to the Authorized System authorized under condition 5.1 is subject to the following conditions:
 - 5.2.1 The design of the Alteration shall:
 - a) Be prepared by a Licensed Engineering Practitioner;
 - Be designed only to collect, receive, treat, or control only Stormwater and has not been designed to collect, receive, treat, or control sanitary Sewage;
 - c) Be planned, designed, and built to be consistent with the Stormwater Management Planning and Design Guidance Manual. If there is a conflict with Appendix A of this Approval, then Appendix A shall prevail;
 - Satisfy the Design Criteria or any municipal criteria that have been established that exceed the minimum requirements set out in the Design Criteria;
 - e) Be part of a Stormwater Treatment Train approach that satisfies the requirements outlined in Appendix A, or transmits Stormwater to a Stormwater Management Facility that satisfies the requirements outlined in Appendix A;
 - f) Include an outlet or an emergency overflow for the Sewage Works, with the verification of the location, route, and capacity of the receiving major system to accommodate overflows; and
 - g) Include design considerations to protect sources of drinking water, including those set out in the Standard Operating Policy for Sewage Works and any applicable local Source Protection Plan policies.
 - 5.2.2 The Alteration shall not result in:

- a) Adverse Effects; or
- b) A deterioration on the approved quality or quantity criteria of downstream Stormwater Management Facilities which results in not being able to achieve the overall Stormwater performance criteria per Appendix A.
- 5.2.3 The Alteration may incorporate co-benefits, but in doing so shall not diminish functionality or efficiency of any Stormwater Management Facility(ies) that may be impacted by the Alteration.
- 5.2.4 Any new sedimentation MTD that is part of the Alteration shall meet the following requirements:
 - a) Tested in accordance with the TRCA protocol Procedure for Laboratory Testing of OGSs and testing data verified in accordance with the ISO 14034 Environmental Technology Verification (ETV) protocol. The suspended solids removal claimed for the sedimentation MTD in achieving the water quality criteria in Appendix A, and the sizing methodology used to determine the appropriate sedimentation MTD dimensions for the particular site, shall be based on the verified removal efficiency for all particle size fractions comprising the particle size distribution specified within the testing protocol or a particle size distribution approved by the Director.
 - b) Using the verified sediment removal efficiencies for the respective surface loading rates specified in the testing protocol, the sedimentation MTD sizing methodology shall use linear interpolation to calculate sediment removal efficiencies for surface loading rates that lie between the specified surface loading rates. For surface loading rates less than the lowest specified and tested surface loading rate, the sediment removal efficiency shall be assumed to be identical to the verified removal efficiency for the lowest specified and tested surface loading rate. Where available, 15 min rainfall stations shall be used for sizing the sedimentation MTD.
 - c) When two or more sedimentation MTD are installed in series, no additional sediment removal credit shall be applied beyond the sediment removal credit of the largest device in the series.
 - d) The sediment removal rate at the specified surface loading rates determined for the tested full scale, commercially available MTD may be applied to similar MTDs of smaller or larger size by proper scaling. Scaling the performance results

of the tested MTD to other model sizes without completing additional testing is acceptable provided that:

- i The claimed sediment removal efficiencies for the similar MTD are the same or lower than the tested MTD at identical surface loading rates; and
- ii The similar MTD is scaled geometrically proportional to the tested unit in all inside dimensions of length and width and a minimum of 85% proportional in depth.
- e) The units must be installed in an off-line configuration if the unit had an effluent concentration greater than 25 mg/L at any of the surface loading rates conducted during the sediment scour and resuspension test as part of the ISO 14034 verification.
- f) The sedimentation MTD should be sized for the highest suspended solids percent removal physically and economically practicable, and used as a pre-treatment device in a treatment train designed to achieve the water quality criteria in Appendix A.
- 5.2.5 Any new filtration MTD that is part of the Alteration shall meet the following requirements:
 - a) Field tested and verified in accordance with a minimum of one of the following protocols:
 - i Washington State Technology Assessment Protocol -Ecology (TAPE) General Use Level Designation (GULD); and
 - 1. Has ISO 14034 ETV verification to satisfy ETV Canada requirements;
 - 2. The field monitoring data set used to obtain GULD certification should include a minimum of three (3) events that exceed 75th percentile rainfall event with at least one hour with an intensity of 6 mm/h or greater.
 - ii Another testing and verification method, where the Director has communicated acceptability in writing.
 - b) Where available, 15 min rainfall stations shall be used for sizing the filtration MTD using the rainfall intensity corresponding to 90% of annual runoff volume;

- c) The SS removal rate determined for the tested full scale, commercially available filtration MTD, or single full-scale commercially available cartridge or filtration module, may be applied to other model sizes of that filtration MTD provided that appropriate scaling principles are applied. Scaling the tested filtration MTD or single full-scale commercially available cartridge or filtration module, to determine other model sizes and performance without completing additional testing is acceptable provided that:
 - i Depth of media, composition of media, and gradation of media remain constant.
 - ii The ratio of the maximum treatment flow rate to effective filtration treatment area (filter surface area) is the same or less than the tested filtration MTD;
 - iii The ratio of effective sedimentation treatment area to effective filtration treatment area is the same or greater than the tested filtration MTD; and
 - iv The ratio of wet volume to effective filtration treatment area is the same or greater than the tested filtration MTD.
- 5.2.6 When it is necessary to use Privately Owned Stormwater Works in the Stormwater Treatment Train to achieve Appendix A criteria as part of or as a result of an Alteration, the following conditions apply, commencing two years after issuance of this Approval:
 - a) The Owner shall, through such binding agreements as may be available under the Planning Act and the Municipal Act and to the extent permitted by such legislation, require private property owners to build, operate, and maintain their Privately Owned Sewage Works so the Works function for their designed purpose; and
 - b) The Owner shall inform owners of Privately Owned Stormwater Works of the requirement under the Environmental Protection Act and/or Ontario Water Resources Act to obtain an environmental compliance approval or approvals for their Privately Owned Stormwater Works, unless otherwise exempt under such legislation.
- 5.2.7 The Alteration is wholly located within the municipal boundary over which the Owner has jurisdiction or there is a written agreement in place with the adjacent municipality respecting the Alteration and resulting Sewage Works.

- 5.2.8 The Owner consents in writing to the Alteration authorized under condition 5.1.
- 5.2.9 A Licensed Engineering Practitioner has verified in writing that the Alteration authorized under condition 5.1 meets the design requirements of conditions 5.2.1 a) to f), 5.2.4 and 5.2.5.
- 5.2.10 The Owner has verified in writing that the Alteration authorized under condition 5.1 meets the requirements of conditions 5.2.1 g), 5.2.2, 5.2.6 to 5.2.9, 5.3, 5.4, and 7.2.
- 5.3 The authorization in condition 5.1 does not apply:
 - 5.3.1 To the establishment of a regional end-of-pipe flood control Facility; Regional end-of-pipe flood control Facilities are regulated under MNRF, and if a permit/approval is required from the MNRF, then the facility shall be designed as per MNRF requirements;

For clarity, stormwater management pond that provides quantity control up to the regional storm or 100-year storm event for development (generally, post to pre-development peak) is regulated under the MECP, and its approval is preauthorized under the CLI ECA. The applicant is required to check with MNRF and if a permit/approval is also required from MNRF, then the facility shall be designed as per MNRF requirements.

- 5.3.2 Where the Alteration will result in new or increased discharges to a Municipal Drain without written approval by the Owner and a signed Municipal Drainage Engineer's Report in accordance with the *Drainage Act* R.S.O. 1990, c. D.17;
- 5.3.3 To the establishment of a new outlet with direct discharge into the Natural Environment without treatment and monitoring in accordance with this Approval;
- 5.3.4 Where the Alteration will service a drainage area greater than 165 ha;
- 5.3.5 Where the Alteration will result in conversion of an existing Stormwater Management Facility into another type of Stormwater Management Facility, unless the conversion increases quality control, quantity control does not decrease;
- 5.4 Any Alteration to LID or end-of-pipe Stormwater Management Facilities shall be inspected before operation of the Alteration to confirm construction as per specifications (including depth, as applicable).

- 5.5 The consents and verifications required in conditions 5.2.8 to 5.2.10 if applicable, shall be:
 - 5.5.1 Recorded on Form SW2, prior to undertaking the Alteration; and
 - 5.5.2 Retained for a period of at least ten (10) years by the Owner.
- 5.6 For greater certainty, the verification requirements set out in condition 5.5 do not apply to any Alteration in respect of the Authorized System which:
 - 5.6.1 Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98; or
 - 5.6.2 Constitutes maintenance or repair of the Authorized System.

6.0 Authorizations of Future Alterations for Third Pipe Collection System Additions, Modifications, Replacements and Extensions

- 6.1 The Owner or a Prescribed Person may alter the Authorized System by adding, modifying, replacing, or extending, and operating works comprising a municipal Third Pipe Collection System to collect foundation drainage and groundwater where:
 - 6.1.1 The design of the Alteration:
 - a) Has been prepared by a Licensed Engineering Practitioner;
 - b) Is limited to collection, transmission, reuse and/or treatment of only foundation drainage and groundwater, and is not designed to collect or treat sanitary Sewage;
 - c) Satisfies the Design Criteria or any municipal criteria that have been established that exceed the minimum requirements set out in the Design Criteria; and
 - d) Is scoped so that the resulting Sewage Works are intended to:
 - i Primarily function for the non-potable reuse, as deemed acceptable by the Owner and the local health unit, of foundation drainage and/or groundwater, and no discharge to a Storm Sewer or Separate Sewer if there is excess volume that cannot be reused; and/or
 - ii Provide wetland recharge, in which case, collection of rooftop runoff will also be acceptable.
 - 6.1.2 The Alteration is not located on a contaminated site, or where natural occurring conditions result in contaminated discharge, or
where the site receives contaminated groundwater or foundation drainage from another site, unless the discharge being received has been remediated or treated prior to acceptance by the Third Pipe Collection System.

- 6.1.3 The Owner has undertaken a site assessment for water quantity, water quality, and hydrogeological site conditions regarding the Alteration.
- 6.1.4 The Alteration will not result in Adverse Effects.
- 6.1.5 The Alteration is wholly located within the municipal boundary over which the Owner has jurisdiction or there is a written agreement in place with the adjacent property owner respecting the Alteration and resulting Sewage Works.
- 6.1.6 The Owner consents in writing to the Alteration.
- 6.1.7 A Licensed Engineering Practitioner has verified in writing that the Alteration meets the requirements of condition 6.1.1.
- 6.1.8 The Owner has verified in writing that the Alteration meets the requirements of conditions 6.1.2 to 6.1.7.
- 6.2 The consents, verifications and documentation required in conditions 6.1.7 and 6.1.8 shall be:
 - 6.2.1 Recorded on Form SW3 prior to undertaking the Alteration; and
 - 6.2.2 Retained for a period of at least ten (10) years by the Owner.
- 6.3 For greater certainty, the verification requirements set out in condition 6.2 do not apply to any Alteration in respect of the Authorized System which:
 - 6.3.1 Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98; or
 - 6.3.2 Constitutes maintenance or repair of the Authorized System, including changes to software for an existing SCADA system resulting from Alterations authorized in condition 6.1.
- 6.4 The Owner shall update, within twelve (12) months of the Alteration of the Sewage Works being placed into service, any drawings maintained for the Municipal Stormwater Management System to reflect the Alterations of the Sewage Works, where applicable.

7.0 Outlets

- 7.1 Any outlet established or altered as part of an Alteration authorized through conditions 4, 5, or 6 of Schedule D in this Approval shall have regard to the 2012 TRCA Stormwater Management Criteria document (as amended), Appendix E, for outlets and be consistent with local municipal requirements.
- 7.2 Any outlet established as part of an Alteration authorized through conditions 4, 5, or 6 of Schedule D in this Approval shall not:
 - 7.2.1 Increase discharge or create a new point source discharge to privately owned land unless there is express written consent of the owner(s) of such private land(s). (For clarity, when SWM works are retaining flows to the pre-development flows and there are no new point source discharges, then the flows would not have increased and clause 7.2.1 is not applicable.)
 - 7.2.2 Result in Adverse Effects. Some examples of potential adverse effects would include erosion from new point source outlets, property damage due to changes in stormwater routes, and flooding from any storms that were to be contained to pre-development flows that weren't contained to pre-development flows.

8.0 Previously Approved Sewage Works

- 8.1 If approval for an Alteration to the Authorized System was issued under the EPA and is revoked by this Approval, the Owner may make the Alteration in accordance with:
 - 8.1.1 The terms of this Approval; or
 - 8.1.2 The terms and conditions of the revoked approval as of the date this approval was issued, provided that the Alteration is commenced within five (5) years of the date that the revoked approval was issued.

9.0 Transition

- 9.1 An Alteration of the Authorized System is exempt from the requirements in clause (e) of condition 4.1.1, clause (d) of condition 5.2.1, and clause (c) of condition 6.1.1 and Appendix A (with any additions that are not mentioned or in conflict with the 2003 Stormwater Management Planning and Design Guidance Manual) where:
 - 9.1.1 Effort to undertake the Alteration, such as tendering or commencement of construction of the Sewage Works associated with the Alteration, begins on or before March 1, 2026.

- 9.1.2 The design of the Alteration conforms to the Stormwater Management Planning and Design Manual, and where applicable, Design Guidelines for Sewage Works;
- 9.1.3 The design of the Alteration had reached the 30% design phase before the issue date of this Approval, or a Class Environmental Assessment or site specific study was completed for the Alteration and changes to the design result in significant cost increase or significant project delays; and
- 9.1.4 The Alteration would be otherwise authorized under this Approval.

10.0 System-Specific Conditions

- 10.1 Stormwater Pumping Stations
 - 10.1.1 The Owner or a Prescribed Person may alter the Authorized System by modifying existing stormwater pumping stations and odour control units / Facilities, including adding, replacing, or modifying the following components:
 - a) Pumps, including replacement parts, in an existing pumping system;
 - b) Grinders and screens;
 - c) Aeration and/or mixing equipment;
 - d) Chemicals and associated equipment and tanks (including secondary containment);
 - e) Odour and corrosion control structures;
 - f) Instrumentation and controls, including electrical;
 - g) Discharge and process piping;
 - h) Valves;
 - i) Wet-wells,
 - j) Fat, oil, and grease separators (FOGs), and
 - k) Chemical storage tanks (including fuel storage tanks) with Spill containment and associated equipment.
- 10.1.2 The Owner or a Prescribed Person may alter the Authorized System by adding a new stormwater pumping station which meets the following criteria:

- a) Are designed to transmit a Peak Flow of no greater than 1000 L/s;
- b) Includes emergency stand-by power, Spill containment, and emergency alarms (SCADA, if applicable);
- Includes emergency storage designed to provide at minimum two (2) hours of response time at peak design flow
- d) Includes odour and corrosion control, as applicable
- e) Would serve an existing mixed land use or a new residential development or a new mixed land use development (or new phased residential or mixed land use development), which may include existing mixed land use or residential development that has no Combined or Partially Separated Sewers;
- f) Is designed to only collect stormwater

10.1.3 The design of the Alteration shall:

- Be prepared by a Licensed Engineering Practitioner, where the Alteration falls within the practice of professional engineering as defined in the Professional Engineers Act, R.S.O. 1990;
- Be consistent with or otherwise address the design objectives contained within the Design Guidelines for Sewage Works; and
- c) Include design considerations to protect sources of drinking water, such as those included in the Standard Operating Policy for Sewage Works, and any applicable local Source Protection Plan policies.
- 10.1.4 The Alteration shall:
 - a) Not cause overflows or backups nor increase surcharging at any maintenance holes or privately owned infrastructure (e.g., service connections to basements) connected to the Authorized System or any Municipal Sewage Collection System connected to it;

- b) Provide smooth flow transition to existing gravity Sewers;
- c) Not increase the generation of sulfides and other odorous compounds in the Authorized System; and
- d) Be wholly located within the municipal boundary over which the Owner has jurisdiction or there is a written agreement in place with the adjacent municipality respecting the Alteration and resulting Sewage Works.
- 10.1.5 Any Alteration of the Authorized System made under conditions 10.1.1 and 10.1.2 shall not result in:
 - a) Exceedance of hydraulic capacity (including Uncommitted Reserve Hydraulic Capacity, as applicable) of the downstream:
 - i Municipal Stormwater Collection System; or
 - ii Receiving Stormwater Management Facility.
 - b) Exceedance of any downstream Pumping Station Capacity as specified in Schedule B of this Approval;
 - c) An increase in the capacity of an existing Pumping Station Capacity of greater than 50%.
 - d) Any increase in Collection System Overflows that is not offset by measures taken elsewhere in the Authorized System.
 - e) Any increase in the frequency and/or volume of Stormwater Management Facility bypasses or Overflows that is not offset by measures.
 - f) Deterioration of the normal operation of municipal Stormwater Management Facility(ies) and/or the Authorized System.
 - g) A negative impact on the ability to undertake monitoring necessary for the operation of the Authorized System.
 - h) Adverse Effects.

10.1.6 The Alteration is subject to the following conditions:

- a) The Owner consents in writing to the Alteration.
- b) The person responsible for the design has verified in writing that the Alterations meets the requirements of conditions 10.1.3 a) and b), as applicable.
- c) The Owner has verified in writing that the Alteration meets the requirements of conditions 10.1.3 c), and 10.1.6 a) and b).
- 10.1.7 The Owner shall verify in writing that any Alteration of the Authorized System in accordance with conditions 10.1.1 and 10.1.2 has met the requirements of the conditions listed in conditions 10.1.4 and 10.1.5.
- 10.1.8 The consents, verifications and documentation required in conditions 10.1.6 and 10.1.7 shall be:
 - a) Recorded on Form SW2 prior to undertaking the Alteration; and
 - b) Retained for a period of at least ten (10) years by the Owner.
- 10.1.9 For greater certainty, the verification requirements set out in condition 10.1.8 do not apply to any Alteration in respect of the Authorized System which:
 - a) Is exempt under section 53(6) of the OWRA or by O. Reg. 525/98; or
 - b) Constitutes maintenance or repair of the Authorized System, including changes to software for an existing SCADA system resulting from Alterations authorized in condition 10.1.1 and 10.1.2.
- 10.1.10 The Owner shall update, within twelve (12) months of the Alteration of the Sewage Works being placed into service, any drawings maintained for the Municipal Stormwater Collection System to reflect the Alterations of the Sewage Works, where applicable.

10.2 Authorizations of Future Alterations to Equipment with Emissions to the Air

10.2.1 The Owner and a Prescribed Person may alter the Authorized System by adding, modifying, or replacing the following Equipment in the Municipal Stormwater Management System:

- a) Venting for odour control using solid scavenging or carbon adsorption units;
- b) Venting for odour control by replacing existing biolfiltration or wet air scrubbing systems, including any components, with Equipment of the same or better performance characteristics; and
- c) Emergency generators that fire No. 2 fuel oil (diesel fuel) with a sulphur content of 0.5 per cent or less measured by weight, natural gas, propane, gasoline, or biofuel, and that are used for emergency duty only with periodic testing.
- 10.2.2 Any Alteration of the Municipal Stormwater Management System made under condition 10.2.1 that may discharge or alter the rate or manner of a discharge of a Compound of Concern to the atmosphere is subject to the following conditions:
 - a) The Owner shall, at all times, take all reasonable measures to minimize odorous emissions and odour impacts from all potential sources at the Facility.
 - b) The Owner shall ensure that the noise emissions from the Facility comply with the limits set out in Publication NPC-300.
 - c) The Owner shall ensure that the vibration emissions from the Facility comply with the limits set out in Publication NPC-207.
- 10.2.3 The Owner shall not add, modify, or replace Equipment in the Municipal Stormwater Management System as set out in condition 10.2.1 unless the Equipment performs an activity that is directly related to municipal Stormwater collection and transmission.
- 10.2.4 The emergency generators identified in condition 10.2.1 c) shall not be used for non-emergency purposes (excluding generator testing) including the generation of electricity for sale or for peak shaving purposes.
- 10.2.5 The Owner shall verify in writing that any addition, modification, or replacement of Equipment in accordance with condition 10.2.1 has met the requirements of the conditions listed in conditions 10.2.2, 10.2.3, and 10.2.4.
- 10.2.6 The verifications and documentation required in condition 10.2.5 shall be:

- a) Recorded on Form A1 prior to the additional, modified or replacement Equipment being placed into service; and
- b) Retained for a period of at least ten (10) years by the Owner.
- 10.2.7 For greater certainty, the verification and documentation requirements set out in condition 10.2.5 and 10.2.6 do not apply to any addition, modification, or replacement in respect of the Authorized System which:
 - a) Is exempt from the requirements of the EPA, or for Equipment that is exempt from s.9 of the EPA under O. Reg. 524/98; or
 - b) Constitutes maintenance or repair of the Authorized System.

Schedule E. Operating Conditions		
System Owner	Markham, The Corporation of the City of	
ECA Number	021-S701	
System Name	Markham Stormwater Collection and Treatment System	
ECA Issue Date	February 14th, 2025	

1.0 General Operations

- 1.1 The Owner shall ensure that, at all times, the Sewage Works comprising the Authorized System and the related equipment and Appurtenances used to achieve compliance with this Approval are properly operated and maintained.
- 1.2 Prescribed Persons and Operating Authorities shall ensure that, at all times, the Sewage Works under their care and control and the related equipment and Appurtenances used to achieve compliance with this Approval are properly operated and maintained.
- 1.3 In conditions 1.1 and 1.2 "properly operated and maintained" includes effective performance, adequate funding, adequate operator staffing and training, including training in applicable procedures and other requirements of this Approval and the EPA, OWRA, CWA, and regulations, adequate laboratory services, process controls and alarms and the use of process chemicals and other substances used in the Authorized System.
- 1.4 The Owner shall ensure that Sewage Works are operated with the objective that the effluent from the Sewage Works is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen, foam, or discoloration on the receiving waters, and shall evaluate the need for maintenance if the objective is not being met.
- 1.5 The Owner shall ensure that any Storm Sewers or ditches authorized under Schedule D of this approval are not placed into operation until the associated Stormwater Management Facilities to provide treatment are constructed and operated.

2.0 Duties of Owners and Operating Authorities

2.1 The Owner, Prescribed Persons, and any Operating Authority shall ensure the following:

- 2.1.1 At all times that the Sewage Works within the Authorized System are in service, the Sewage Works are:
 - a) Operated in accordance with the requirements under the EPA and OWRA, and
 - b) Maintained in a state of good repair.
- 2.1.2 The Authorized System is operated by persons that are familiar with the requirements of this Approval.
- 2.1.3 All sampling, testing, monitoring, and reporting requirements under the EPA and this Approval that relate to the Authorized System are complied with.
- 2.1.4 All necessary steps are taken to ensure that operations of the Sewage Works and any associated physical structures do not constitute a safety or health hazard to the general public.
- 2.1.5 Where a Stormwater Management Facility ceases to function as a Stormwater Management Facility, whether by intent, accident, or otherwise (e.g., a CSO or an SSO), a workplan shall be developed that includes local community notification, plans for rehabilitating the Stormwater Management Facility to proper function in a reasonable time, identification of actions that will be taken to prevent reoccurrences, and timelines for implementing the workplan.
- 2.1.6 That operations and maintenance activities are undertaken at the frequency and in conformance with the procedures set out in the O&M Manual.
 - a) A Prescribed Person or Operating Authority shall only undertake operations and maintenance activities where they have been delegated the authority to undertake such activities by the Owner or the Owner has expressly approved the activity(ies).
- 2.2 For clarity, the requirements outlined in the above conditions 2.1 for Prescribed Persons and any Operating Authority only apply to Sewage Works within the Authorized System where they are responsible for the operation.
- 2.3 The Owner, Prescribed Persons, and Operating Authority shall take all reasonable steps to minimize and ameliorate any Adverse Effect on the Natural Environment or impairment of the quality of water of any waters resulting from the operation of the Authorized System, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.

3.0 Operations and Maintenance

- 3.1 Inspection
 - 3.1.1 The Owner shall ensure that all Sewage Works within the Authorized System are inspected at the frequency and in accordance with procedures set out in their O&M Manual.
 - 3.1.2 The owner shall ensure that:
 - Any Stormwater Management Facilities, pumping stations, and any outlets that discharge to a receiver, are inspected at least once before December 31, 2026, if these have not been inspected since January 1, 2018 and thereafter as required by the O&M Manual; and
 - b) Any Stormwater Management Facilities, pumping stations, and any outlets that discharge to a receiver, established, or replaced within the Authorized System after the date of issuance of this Approval, are inspected within one year of being placed into service and thereafter as required by the O&M Manual.
 - 3.1.3 The Owner shall clean and maintain Sewage Works within the Authorized System to ensure the Sewage Works perform as designed.
 - 3.1.4 The Owner shall inspect the Stormwater Management Facilities in the Authorized System after significant flooding events as defined in, and in accordance with procedures documented in, the O&M Manual.
 - 3.1.5 The Owner shall maintain records of the results of the inspections required in condition 3.1.1, 3.1.2 and 3.1.4 and any cleaning and maintenance operations undertaken, and shall make available the records for inspection by the Ministry upon request. The records shall include the following:
 - a) Asset ID and name of the Sewage Works;
 - b) Date and results of each inspection, maintenance, or cleaning;
 - c) Name of person who conducted the inspection, maintenance, or the name of the inspecting official, where applicable, and
 - d) As applicable to the type of works, observations resulting from the inspection including, at a minimum:

- i Hydraulic operation of the works (e.g., length of occurrence since the last rainfall event, evidence or occurrence of overflows).
- ii Condition of vegetation in and around the works.
- iii Occurrence of obstructions at the inlet and outlet of the works.
- iv Evidence of spills and/or oil/grease contamination.
- v Presence of trash build-up, and
- vi Measurements of other parameters as required in the Monitoring Plan.
- 3.2 Operations & Maintenance (O&M) Manual
 - 3.2.1 The Owner shall prepare and implement an operations and maintenance manual for Sewage Works within the Authorized System on or before March 1, 2027 that includes or references, but is not necessarily limited to, the following information:
 - a) Procedures for the routine operation of the Sewage Works;
 - b) Inspection programs, including the frequency of inspection, and the methods or tests employed to detect when maintenance is necessary, including:
 - i Presence of algae and/or invasive species impairing the Works (e.g., phragmites, goldfish);
 - ii Measurements of sediment depth, manual water levels (staff gauge) and/or visual observations, as appropriate to the Stormwater Management Facilities.
 - c) Maintenance and repair programs, including:
 - i The frequency of maintenance and repair for the Sewage Works;
 - ii Stormwater pond sediment cleanout, dewatering, and management;
 - iii Excavation, modification, replacement of LID soil/media/aggregate/geotextile, such as bioretention cells, green roof, permeable pavement; and

- iv The frequency of maintenance for any other Stormwater Management Facilities identified in Schedule B that collect sediment.
- d) Operational and maintenance requirements to protect sources of drinking water, such as those included in the Standard Operating Policy for Sewage Works, and any applicable local Source Protection Plan policies;
- e) Procedures for routine physical inspection and calibration of monitoring equipment or components in accordance with the Monitoring Plan;
- f) Emergency Response, Spill Reporting and Contingency Plans and Procedures for dealing with equipment breakdowns, potential spills, and any other abnormal situations, including notification to the Spills Action Centre, the Medical Officer of Health, and the District Manager, as applicable;
- g) Procedures for receiving, responding, and recording public complaints, including recording any follow-up actions taken; and
- h) Up to date drawings or record drawings of the Sewage Works for stormwater works constructed on or after January 1, 2010 and where available for stormwater works constructed prior to January 1, 2010.
- 3.2.2 The Owner shall review and update the O&M Manual and ensure that access to a copy is readily available for each Stormwater Management Facility for the operational life of the works.
- 3.2.3 The Owner shall provide a copy of the O&M Manual to Ministry staff, upon request.
- 3.2.4 The Owner shall revise the O&M Manual to include procedures necessary for the operation and maintenance of any Sewage Works within the Authorized System that are established, altered, extended, replaced, or enlarged after the date of issuance of this approval prior to placing into service those Sewage Works.
- 3.2.5 For greater certainty, the O&M Manual may be a single document or a collection of documents that, when considered together, apply to all parts of the Authorized System.
- 3.3 On or before March 1, 2028, the Owner shall establish signage to notify the public at any Stormwater Management Facility identified in Schedule B that

is a wet pond, dry pond, hybrid Facility, or engineered wetland. The signage shall include the following minimum information:

- 3.3.1 Identification that the site contains a Stormwater Management Facility;
- 3.3.2 Identification of potential hazards and limitations of water use, as applicable;
- 3.3.3 Identification of the purpose of the Facility;
- 3.3.4 ECA approval number and/or asset ID; and
- 3.3.5 Owner's contact information.
- 3.4 Prior to any maintenance of Sewage Works comprising the Authorized System, the Owner shall ensure that all applicable permits or authorizations have been obtained from Federal or Provincial agencies having legislative mandates relating to species at risk or water resources.

4.0 Monitoring Plan

- 4.1 On or before March 1, 2027 or within twenty-four (24) months of the date of the publication of the Ministry's monitoring guidance, whichever is later, the Owner shall develop and implement a monitoring plan for the Authorized System. The monitoring plan shall be:
 - 4.1.1 Signed and approved by management with the authority delegated by the Owner to do so;
 - 4.1.2 Peer-reviewed by a third-party Qualified Person (QP), external to the development of the Monitoring Plan, to verify the adequacy of the Monitoring Plan in complying with conditions 4.4 and 4.5 of Schedule E. The results of the peer review shall include:
 - a) Written confirmation from the QP that they have the experience and qualifications to carry out the work; and
 - b) Written confirmation from the QP of the adequacy of the Monitoring Plan.
- 4.2 The Owner, or a QP designated by the Owner, may jointly develop the Monitoring Plan in partnership with Owner(s) of other Municipal Stormwater Management Systems as long as the Municipal Stormwater Management Systems are within the same watershed.
- 4.3 The Owner shall ensure the Monitoring Plan is implemented and any resulting monitoring data is recorded in an electronic database.

- 4.4 The Monitoring Plan shall include:
 - 4.4.1 Procedures to verify that the operational performance of the Authorized System is as designed/planned;
 - 4.4.2 Procedures to assess the environmental impact of the Municipal Stormwater Management System; and
 - 4.4.3 Procedures for any corrective action that may be required to address any performance deficiencies or environmental impacts identified from above conditions 4.4.1 or 4.4.2.
- 4.5 The Monitoring Plan shall also include, but not be limited to:
 - 4.5.1 Identification of the Sewage Works to be monitored, including outlets and any works that provide quality and/or quantity control;
 - 4.5.2 Identification of the key receivers to be monitored within the Owner's municipal boundaries and the monitoring locations;
 - 4.5.3 Consideration of relevant municipal land use and environmental planning documents (e.g., Stormwater Management Master Plan, Class Environmental Assessment Project, asset management plan, subwatershed studies, and planned development);
 - 4.5.4 Characterization of water quality and quantity conditions and identification of water users to be protected, based on conditions 4.5.2 and 4.5.3;
 - 4.5.5 Identification of water quality and quantity goals, as it relates to Stormwater management, using the information collected in condition 4.5.4;
 - 4.5.6 Identification of locations of rainfall gauges to be used;
 - 4.5.7 Identification of inspections, measurements, sampling, analysis and/or other monitoring activities that were used as the basis for or will inform future updates to the procedures identified in condition 4.4.
 - 4.5.8 Details respecting a monitoring program for the works and the receivers, that includes, at a minimum:
 - a) Hydrological, chemical, physical, and biological parameters, as appropriate, in alignment with the goals;

- Ensures water level of the Stormwater Measurement Facilities, excluding MTDs, are measured at regular intervals with a water level gauge;
- c) Monitoring methodology, including the frequency and protocols for sampling, analysis, and recording, with consideration of dry and wet weather events and timing of sampling during wet weather events.
- d) Ensures that the time of all samples or measurements are recorded.
- 4.5.9 An implementation plan for the monitoring program that identifies timelines and, if the monitoring occurs on a rotational basis, provides a description of the rotational schedule and associated works.
- 4.5.10 Includes a summary of all monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations, and
- 4.5.11 Consideration of adaptive management practices (e.g., evidencebased decision making).
- 4.6 The Owner shall ensure that the Monitoring Plan is updated where necessary within twelve (12) months of any Alteration to the Authorized System, or more frequently as required by the Monitoring Plan.
- 4.7 The Owner shall, on request and without charge, provide a copy of the Monitoring Plan and any resulting monitoring data to members of the public.

5.0 Reporting

- 5.1 The Owner shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to Ministry staff.
- 5.2 The Owner shall prepare an annual performance report for the Authorized System that:
 - 5.2.1 Is submitted to the Director on or before April 30th of each year and covers the period from January 1st to December 31st of the preceding calendar year.
 - a) For clarity, the first report shall cover the period of April 1st, 2025 to December 31st, 2025 and be submitted to the Director on or before April 30th, 2026.

- b) For the transitional period to April 1, 2025, annual reporting requirements from previous ECAs that have been revoked through issuance of this ECA shall apply.
- 5.2.2 Includes a summary of all monitoring data along with an interpretation of the data and an overview of the condition and operational performance of the Authorized System and any Adverse Effects on the Natural Environment;
- 5.2.3 Includes a summary and interpretation of environmental trends based on all monitoring information and data for the previous five (5) years;
- 5.2.4 Includes a summary of any operating problems encountered and corrective actions taken;
- 5.2.5 Includes a summary of all inspections, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the Authorized System;
- 5.2.6 Includes a summary of the calibration and maintenance carried out on all monitoring equipment;
- 5.2.7 Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints;
- 5.2.8 Includes a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat;
- 5.2.9 Includes a summary of all spills or abnormal discharge events;
- 5.2.10 Includes a summary of actions taken, including timelines, to improve or correct performance of any aspect of the Authorized System; and
- 5.2.11 Includes a summary of the status of actions for the previous reporting year.
- 5.3 The report described in condition 5.2 shall be:
 - 5.3.1 Made available, on request and without charge, to members of the public who are served by the Authorized System; and

5.3.2 Made available, by June 1st of the same reporting year, to members of the public without charge by publishing the report on the Internet, if the Owner maintains a website on the Internet.

6.0 Record Keeping

- 6.1 The Owner shall retain for a minimum of ten (10) years from the date of their creation:
 - 6.1.1 All records, reports and information required by this Approval and related to or resulting from Alterations to the Authorized System, and
 - 6.1.2 All records, report and information related to the operation, maintenance and monitoring activities required by this Approval.
- 6.2 The Owner shall update, within twelve (12) months of any Alteration to the Authorized System being placed into service, any drawings maintained for the Municipal Stormwater Management System to reflect the Alteration of the Sewage Works, where applicable.

7.0 Review of this Approval

- 7.1 No later than the date specified in Condition 1 of Schedule A of this Approval, the Owner shall submit to the Director an application to have the Approval reviewed. The application shall, at minimum:
 - 7.1.1 Include an updated description of the Sewage Works within the Authorized System, including any Alterations to the Sewage Works that were made since the Approval was last issued; and
 - 7.1.2 Be submitted in the manner specified by Director and include any other information requested by the Director.

8.0 Source Water Protection

- 8.1 The Owner shall ensure that any Alteration in the Authorized System is designed, constructed, and operated in such a way as to be protective of sources of drinking water in Vulnerable Areas as identified in the Source Protection Plan, if available.
- 8.2 The Owner shall prepare a "Significant Drinking Water Threat Assessment Report for Proposed Alterations" for the Authorized System on or before March 1, 2026 that includes, but is not necessarily limited to:
 - 8.2.1 An outline of the circumstances under which proposed Alterations could pose a Significant Drinking Water Threat based on the Director's Technical Rules established under the CWA.

- 8.2.2 An outline of how the Owner assesses the proposed Alterations to identify drinking water threats under the CWA.
- 8.2.3 For any proposed Alteration a list of components, equipment, or Sewage Works that are being altered and have been identified as a Significant Drinking Water Threat.
- 8.2.4 A summary of design considerations and other measures that have been put into place to mitigate risks resulting from construction or operation of the components, equipment, or Sewage Works identified in condition 8.2.3, such as those included in the Standard Operating Policy for Sewage Works.
- 8.3 The Owner shall make any necessary updates to the report required in condition 8.2 at least once every twelve (12) months.
- 8.4 Any components, equipment, or Sewage Works added to the report required in condition 8.2 shall be included in the report for the operational life of the Sewage Works.
- 8.5 Upon request, the Owner shall make a copy of the report required in condition 8.2 available to the Ministry or Source Protection Authority staff.

9.0 Storm Sewer Catchment Asset Inventory

- 9.1 The Owner shall prepare and submit to the Director an inventory of the storm sewersheds and classify in accordance with Tables E1 and E2, on or before March 1, 2028. Minimum classification of the level of Stormwater management is as follows:
 - 9.1.1 Level A Stormwater receives treatment for water quality and quantity control prior to discharge to the environment;
 - 9.1.2 Level B Stormwater receives treatment for water quality but no water quantity control prior to discharge to the environment; and
 - 9.1.3 Level C Stormwater receives no treatment for water quality prior to discharge to the environment.

Table E1. Storm Sewershed and Associated Treatment					
Outlet	Sewershed	Tributary or	Subwatershed/	Stormwater	Treatment
Asset ID	Catchment	Receiver	Watershed	Management	provided by
	Area (ha)			Level (A, B	other
				or C)	municipality (if
					applicable)

Table E2. Summary of Storm Sewersheds			
Stormwater	Total Number of Outlets to	Total Sewershed Catchment Area	
Management Level	Environment	(ha)	
Level A			
Level B			
Level C			

9.2 Within 12 (twelve) months of the date that the inventory required in condition 9.1 is submitted to the Director, the document(s) or file(s) referenced in Table B1 of Schedule B of this Approval shall be updated to identify the storm sewersheds for each outlet and their level of Stormwater management.

Schedule F: Residue Management

System Owner	Markham, The Corporation of the City of
ECA Number	021-S701
System Name	Markham Stormwater Collection and Treatment System
ECA Issue Date	February 14th, 2025

1.0 Residue Management System

1.1 Not Applicable.

Appendix A – Stormwater Management Criteria

1.0 Applicability of Criteria

- 1.1 The criteria listed under Table A1 of this Appendix applies to all drainage areas greater than 0.5 ha, with the construction erosion and sediment control criteria applying also to sites <0.5 ha;
- 1.2 Despite condition 1.1 of Appendix A, if some or all of the criteria listed under Table A1 of this Appendix have been assessed for and addressed in other adjacent developed lands to the project site through a subwatershed plan or equivalent study, then those criteria may not be applicable to the project site.

Table A1. Performance Criteria

Water Balance [1]	FOR DEVELOPMENT SCENARIOS [2]
	Assessment Studies:
	 i) Control ^[3] as per the criteria identified in the water balance assessment completed in one or more of the following studies ^[15], if undertaken: a watershed/subwatershed plan; Source Protection Plan (Assessment Report component); Master Stormwater Management Plan, Master Environmental Servicing Plan; Class EA, or similar approach that transparently considers social, environmental and financial impacts; or local site study including natural heritage, Ecologically significant Groundwater Recharge Areas (EGRA), inflow and infiltration strategies. The assessment should include sufficient detail to be used at a local site level and consistent with the various level of studies; OR
IF Assessment Studies in i) NOT completed:	
	 ii) Control ^[3] the recharge ^[4] to meet Pre-development ^[5] conditions on property; OR iii) Control ^[3] the runoff from the 90th percentile storm event.
	Lake Simcoe Watershed Municipalities
	 iv) Control ^[3] as per the evaluation of anticipated changes in water balance between Pre-development and post-development assessed through a Stormwater management plan in support of an application for Major Development ^[6]. The assessment should include sufficient detail to be used at a local site level. If it is demonstrated, using the approved water balance estimation methods ^[7], that the site's post to Pre-development water balance cannot be met, and Maximum Extent Possible ^[8] has been attained, the proponent may use Lake Simcoe and Region Conservation Authority's (LSRCA) Recharge Compensation Program ^[9].
	FOR RETROFIT SCENARIOS [10]
	Assessment Studies:
	i) Control as per criteria identified in the water balance assessment completed in one or more of the following studies: a watershed/subwatershed plan, Source Protection Plan (Assessment Report component), Master Stormwater Management Plan, Master Environmental Servicing Plan,

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	 Class EA, or local site study including natural heritage, EGRA, inflow and infiltration strategies, if undertaken. T sufficient detail to be used at a local site level and consistent with the various level of studies; OR ii) If constraints ^[11] identified in i), then control ^[3] as per Maximum Extent Possible ^[8] based on environmental site local needs^[14]. 	he assessment should include feasibility studies or address
	IF Assessment Studies in i) NOT completed: iii) Control ^[3] the recharge ^[4] to meet Pre-development ^[5] conditions on property; OR iv) Control ^[3] the runoff from the 90 th percentile storm event.	
Water Quality ^[1]	FOR DEVELOPMENT SCENARIOS ^[2] All of the following criteria must be met for development scenarios:	
	 General: i) Characterize the water quality to be protected and Stormwater Contaminants (e.g., suspended solids, nutrients for potential impact on the Natural Environment, and control as necessary, OR ii) As per the watershed/subwatershed plan, similar area-wide Stormwater study, or Stormwater management planets possible, prevent increases in Contaminant loads and impacts to receiving waters. 	, bacteria, water temperature) n to minimize, or where
	 Suspended Solids: i) Control to enhanced, normal, or basic levels of protection (80%, 70%, or 60% respectively) for suspended solid receiver) consistent with the Ministry of the Environment, Conservation and Parks publication "Stormwater Man Manual 2003" as amended 	ls removal (based on the nagement Planning and Design
	Phosphorus:	
	i) Minimize existing phosphorus loadings to Lake Erie and its tributaries, as compared to 2018 or conditions prior OR	to the proposed development,
	 ii) Minimize phosphorus loadings to Lake Simcoe and its tributaries. Proponents with development sites located in shall evaluate anticipated changes in phosphorus loadings between Pre-development and post-development th management plan in support of an application for Major Development ^[6]. The assessment should include sufficient site level. If, using the approved phosphorus budget tool ^[12], it is demonstrated that the site's post to Pre-development cannot be met, and Maximum Extent Possible ^[8] has been attained, the proponent may use LSRCA's Phosphore. 	n the Lake Simcoe watershed prough a Stormwater ient detail to be used at a local opment phosphorus budget orus Offsetting Policy ^[9] .
	FOR RETROFIT SCENARIOS ^[10]	
	 i) improve the level of water quality control currently provided on site; AND ii) As per the 'Development' criteria for Suspended Solids. OR 	
	iii) If 'Development' criteria for Suspended Solids cannot be met, Works are designed as a multi-year retrofit p rehabilitation study or similar area-wide Stormwater study, such that the completed treatment train will achieve	project, in accordance with a the 'Development' criteria for

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	Suspended Solids or local needs ^[14] , within ten (10) years; OR
	iv) If constraints ^[11] identified in ii) and iii), then control ^[3] as per Maximum Extent Possible ^[8] based on environmental site feasibility studies.
Erosion Control	FOR DEVELOPMENT SCENARIOS ^[8]
(Watershed) ^[1]	i) As per erosion assessment completed in watershed/subwatershed plan, Master Stormwater Management Plan, Master Environmental
	Servicing Plan, Drainage Plan, Class EA, local site study, geomorphologic study, or erosion analysis; OR
	ii) As per the Detailed Design Approach or Simplified Design Approach methods described in the Stormwater Management Planning and Design Manual:
	a. The Detailed Design Approach may be selected by the proponent for any development regardless of size and location within the
	watershed provided technical specialists are available for the completion of the technical assessments; or considered more appropriate
	than the simplified approach given the size and location of the development within the watershed and the sensitivity of the receiving
	waters in terms of morphology and habitat function.
	b. The Simplified Design Approach may be adopted for watersheds whose development area is generally less than twenty hectares AND either one of the following two conditions apply:
	1) The catchment area of the receiving channel at the point-of-entry of Stormwater drainage from the development is equal to or
	greater than twenty-five square kilometres; or
	2) Meets the following conditions:
	The channel bank full depth is less than three quarters of a metre;
	The channel is a headwater stream;
	The receiving channel is not designated as an Environmentally Sensitive Area (ESA) or Area of Natural or Scientific Interest (ANSI) and does not provide habitat for a sensitive aquatic species;
	The channel is stable to transitional; and
	The channel is slightly entrenched; OR
	iii) In the absence of a guiding study, at minimum:
	a. detain the runoff volume generated from a 25 mm storm event over 24 to 48 hours, if the drainage area is greater than 5ha,
	b. retain onsite the runoff volume generated from the first 5mm of every rainfall event, if the drainage area is less than 5ha.
	FOR RETROFIT SCENARIOS ^[10]
	i) If approaches i-iii) under 'Development Scenarios' are not feasible as per identified constraints ^[11] , then improve the level of erosion control ^[3]
	currently provided on site to Maximum Extent Possible ^[8] based on environmental site feasibility studies or address local needs ^[14] .
Water Quantity	i) As per municipal standards, Master Stormwater Management Plan, Class EA, Individual EA and/or ECA, as appropriate for the type of project
(Minor and Major	
System) [1]	
Peak Flow/Flood	FOR DEVELOPMENT SCENARIOS ^[2]

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Control (Watershed Hydrology) ^[1]	 Manage peak flow control as per watershed/subwatershed plans, municipal criteria being a minimum 10 storm event (except for site-specific considerations and proximity to receiving water bodies), municipal g Individual/Class EA, ECA, Master Plan, as appropriate for the type of project ^[13]. 	0 year, or regional whichever is larger juidelines and standards,
	FOR RETROFIT SCENARIOS ^[10]	
	 i) If approaches i) under 'Development Scenarios' are not feasible as per identified constraints ^[11], then im currently provided on site to Maximum Extent Possible ^[8] based on environmental site feasibility studies 	prove the level of flood control ^[3]
Construction	i) Manage construction erosion and sediment control through development and implementation of an eros	ion and sediment control (ESC) plan.
Erosion and	The ESC plan shall:	
Sediment Control	 c. Have regard to Canadian Standards Association (CSA) W202 Erosion and Sediment Control Insp amended); OR 	bection and Monitoring Standard (as
	d. Have regard to Erosion and Sediment Control Guideline for Urban Construction 2019 by TRCA (a	as amended).
	ii) Be prepared by a QP for sites with drainage areas greater than 5 ha or if specified by the Owner for a dr	ainage lower than 5 ha.
	iii) Installation and maintenance of the ESC measures specified in the ESC plan shall have regard to CSA	W208:20 Erosion and Sediment
	Control Installation and Maintenance (as amended).	
	iv) For sites with drainage areas greater than 5 ha, a QP shall inspect the construction ESC measures, as	specified in the ESC plan.
Footnote	1. Where the opportunity exists on your project site or the same subwatershed, reallocation of developmer	t elements may be optimal for
	management as described in footnote ^[3] .	
	2. Development includes new development, redevelopment, infill development, or conversion of a rural cro	ss-section into an urban cross-section.
	3. Control is in the following hierarchical order, with each step exhausted before proceeding to the next: 1)	retention (infiltration, reuse, or
	evapotranspiration), 2) LID filtration, and 3) conventional Stormwater management. Step 3, conventiona	I Stormwater management, should
	proceed only once Maximum Extent Possible ^[0] has been attained for Steps 1 and 2 for retention and fill	iration.
	4. Recharge is the infiltration and movement of surface water into the soil, past the vegetation root zone, to	the zone of saturation, or water table.
	5. Pre-development is defined as the more stringent of the two following scenarios. T) a site's existing cond	dition, of 2) as defined by the local
	6 Major Development has the same meaning as in the Lake Simcoe Protection Plan, 2009	
	7 Currently the approved tool by LSRCA for calculating the water balance is the Thornthwaite-Mather Me	thod Other tools agreed upon by
	relevant approval agencies (e.g. LSRCA municipality or Ministry) may also be acceptable, subject to w	ritten acceptance by the Director
	8. Maximum Extent Possible means maximum achievable Stormwater volume control through retention an	d LID filtration
	engineered/landscaped/technical Stormwater practices, given the site constraints ^[11] .	
	9. Information pertaining to LSRCA's Recharge Compensation Program and Phosphorus Offsetting Policy	is available on LSRCA's website
	(Isrca.on.ca), or in "Water Balance Recharge Policy for the Lake Simcoe Protection Plan", dated July 20	21, and prepared by Lake Simcoe
	Region Conservation Authority and "Phosphorus Offsetting Policy", dated July 2021, and prepared by La	ake Simcoe Region Conservation

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	Authority.
10.	Retrofit means: 1) a modification to the management of the existing infrastructure, 2) changes to major and minor systems, or 3) adding
	Stormwater infrastructure, in an existing area on municipal right-of-way, municipal block, or easement. It does not include conversion of a rural
	cross-section into an urban cross-section.
11.	Site constraints must be documented. A list of site constraints can be found in Table A2.
12.	Tools for calculating phosphorus budgets may include the Ministry's Phosphorus Tool, the Low Impact Development Treatment Train Tool
	developed in partnership by TRCA, LSRCA, and Credit Valley Conservation (CVC), or other tools agreed upon by the LSRCA and other
	relevant approval agencies including the municipality.
13.	Possible to look at combined grey infrastructure and LID system capacity jointly.
14.	Local needs include requirements for water quality, erosion, and/or water balance retrofits identified by the owner through ongoing operation
	and maintenance of the stormwater system, including inspection of local receiving systems and the characterization of issues requiring
	remediation through retrofit controls.
15.	All studies shall conform with Ministry policies. If any conclusions in the studies negate policy, then the project will require a direct submission
	to the Ministry for review through an application pertaining to a Schedule C Notice.

Table A2. Stormwater Management Practices Site Constraints

Site Constraints	
a)	Shallow bedrock ^[1] , areas of blasted bedrock ^[2] , and Karst;
b)	High groundwater ^[1] or areas where increased infiltration will result in elevated groundwater levels which can be shown through an appropriate area specific study to
	impact critical utilities or property (e.g., susceptible to flooding);
C)	Swelling clays ^[3] or unstable sub-soils or clays;
d)	Contaminated soils (e.g., brownfields);
e)	High Risk Site Activities including spill prone areas;
f)	Prohibitions and or restrictions per the approved Source Protection Plans and where impacts to private drinking water wells and /or Vulnerable Domestic Well Supply
	Areas cannot be appropriately mitigated;
g)	Flood risk prone areas or structures and/ or areas of high inflow and infiltration (I/I) where wastewater systems (storm and sanitary) have been shown through technical
	studies to be sensitive to groundwater conditions that contribute to extraneous flow rates that cause property flooding / Sewer back-ups;
h)	For existing municipal rights-of-way infrastructure (e.g., roads, sidewalks, utility corridor, Sewers, LID, and trails) where reconstruction is proposed and where surface and
	subsurface areas are not available based on a site-specific assessment completed by a QP;
i)	For developments within partially separated wastewater systems where reconstruction is proposed and where, based on a site-specific assessment completed by a QP,
	can be shown to:
	i Increase private property flood risk liabilities that cannot be mitigated through design;

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	ii Impact pumping and treatment cost that cannot be mitigated through design; or	
	iii Increase risks of structural collapse of Sewer and ground systems due to infiltration and the loss of pipe and/or pavement support that cannot be	
	mitigated through design.	
j)	Surface water dominated or dependent features including but not limited to marshes and/or riparian forest wetlands which derive all or a majority of their water from	
	surface water, including streams, runoff, and overbank flooding. Surface water dominated or dependent features which are identified through approved site specific	
	hydrologic or hydrogeologic studies, and/or Environmental Impact Statements (EIS) may be considered for a reduced volume control target. Pre-consultation with the	
	MECP and local agencies is encouraged;	
k)	Existing urban areas where risk to water distribution systems has been identified through assessments to meet applicable drinking water requirements, including	
	Procedures F-6 and F-6-1, and substantiated by a QP through an appropriate area specific study and where the risk cannot be reasonably mitigated per the relevant	
	design guidelines;	
I)	Existing urban areas where risk to life, human health, property, or infrastructure has been is identified and substantiated by a QP through an appropriate area specific	
	study and where the risk cannot be reasonably mitigated per the relevant design guidelines;	
m)	Water reuse feasibility study has been completed to determine non-potable reuse of Stormwater for onsite or shared use;	
n)	Economic considerations set by infrastructure feasibility and prioritization studies undertaken at either the local/site or municipal/system level [4].	
o)	Application of Winter Sand to provide a safe and reliable public transportation network	
Footr	ote:	
1.	May limit infiltration capabilities if bedrock and groundwater is within 1m of the proposed Facility invert per Table 3.4.1 of the LID Stormwater Planning and Design Guide	
	(2010, V1.0 or most recent by TRCA/CVC). Detailed assessment or studies are required to demonstrate infiltration effects and results may permit relaxation of the	
	minimum 1m offset.	
2.	Where blasting is more localized, this constraint may not be an issue elsewhere on the property. While infiltration-based practices may be limited in blasted rock areas,	
	other forms of LID, such as filtration, evapotranspiration, etc., are still viable options that should be pursued.	
3.	. Swelling clays are clay soils that is prone to large volume changes (swelling and shrinking) that are directly related to changes in water content.	
4.	Infrastructure feasibility and prioritization studies should comprehensively assess Stormwater site opportunities and constraints to improve cost effectiveness,	
	environmental performance, and overall benefit to the receivers and the community. The studies include assessing and prioritizing municipal infrastructure for upgrades in	
	a prudent and economically feasible manner.	

Appendix B – Stormwater Management Facilities

The following are Stormwater Management Facilities in the Authorized System:

Location	-79.3591, 43.8694 (631844, 4858679)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.3586, 43.8688 (631890, 4858610)
Catchment Area (ha)	134.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	Ν
Sanitary Overflows	
Notes	Ashton Meadows Waterway Pond

Location	-79.3658, 43.8735 (631297, 4859115)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.3647, 43.8732 (631386, 4859090)
Catchment Area (ha)	115.00
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Milton Fierheller -Pond

Location	-79.2958, 43.8659 (636941, 4858395)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2953, 43.8651 (636984, 4858300)
Catchment Area (ha)	74.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Austin Drive Pond #1

Location	-79.3866, 43.8408 (629695, 4855458)
Watershed/Subwatershed	Don
Receiver of discharge	Markham Creek
Outlet location	-79.3856, 43.8401 (629779, 4855380)
Catchment Area (ha)	206.00
Level of Treatment for suspended solids	Normal
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Vanhorn Pond

Location	-79.2612, 43.8936 (639653, 4861529)
Watershed/Subwatershed	Rouge
Receiver of discharge	Exhibition Creek
Outlet location	-79.2616, 43.8927 (639625, 4861420)
Catchment Area (ha)	359.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Mount Joy Community Centre Pond

Location	-79.3594, 43.8489 (631864, 4856402)
Watershed/Subwatershed	Rouge
Receiver of discharge	Beaver Creek
Outlet location	-79.3592, 43.849 (631880, 4856410)
Catchment Area (ha)	24.70
Level of Treatment for suspended solids	Normal
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	7873-4KZP9R
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Cochrane Pond

Location	-79.3003, 43.8665 (636581, 4858444)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3012, 43.8662 (636506, 4858410)
Catchment Area (ha)	26.40
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	5721-6CCHDK
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Austin Drive Pond #2

Location	-79.2437, 43.8587 (641145, 4857679)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2441, 43.8591 (641110, 4857720)
Catchment Area (ha)	25.20
Level of Treatment for suspended solids	Basic
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Roxbury Pond

Location	-79.3427, 43.8782 (633147, 4859678)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3424, 43.8777 (633168, 4859620)
Catchment Area (ha)	122.00
Level of Treatment for suspended solids	Basic
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Macrill Pond
Location	-79.2352, 43.861 (641819, 4857946)
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Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2347, 43.8605 (641860, 4857890)
Catchment Area (ha)	40.00
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	3-1110-96-006
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Old Mill Pond

Location	-79.2414, 43.8603 (641322, 4857857)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2406, 43.8602 (641393, 4857850)
Catchment Area (ha)	35.40
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	5389-8T8PTC
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Tomlinson Pond

Location	-79.2369, 43.8513 (641708, 4856867)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2359, 43.8513 (641785, 4856870)
Catchment Area (ha)	6.50
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	3-1410-98-006
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Lemsford Dr Pond

Location	-79.2963, 43.8871 (636855, 4860745)
Watershed/Subwatershed	Rouge
Receiver of discharge	Eckhardt Creek
Outlet location	-79.2962, 43.8869 (636858, 4860720)
Catchment Area (ha)	92.50
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Nordlingen Pond

Location	-79.2999, 43.885 (636568, 4860504)
Watershed/Subwatershed	Rouge
Receiver of discharge	Eckhardt Creek
Outlet location	-79.3, 43.8846 (636561, 4860460)
Catchment Area (ha)	10.90
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	0875-65ZS3A
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	Heisey Trail Pond

Location	-79.3177, 43.897 (635114, 4861810)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.3182, 43.8973 (635072, 4861840)
Catchment Area (ha)	22.60
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3-1809-97-006 3-1809-97-006 3-1809-97-006
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Mattamy Pond

Location	-79.2928, 43.8588 (637198, 4857611)
Watershed/Subwatershed	Rouge
Receiver of discharge	Cresthaven Tributary
Outlet location	-79.2898, 43.8609 (637433, 4857840)
Catchment Area (ha)	101.70
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	South Unionville Pond

Location	-79.2463, 43.8491 (640959, 4856609)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2452, 43.8483 (641050, 4856520)
Catchment Area (ha)	531.00
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3-0966-95-006
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Fairtree Pond

Location	-79.2616, 43.8978 (639618, 4861987)
Watershed/Subwatershed	Rouge
Receiver of discharge	Exhibition Creek
Outlet location	-79.2613, 43.8967 (639640, 4861870)
Catchment Area (ha)	51.20
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	2239-4ZVJVZ
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Mount Joy Lake

Location	-79.2979, 43.8978 (636703, 4861928)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2977, 43.8981 (636712, 4861970)
Catchment Area (ha)	12.10
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	0100-4NQQWS
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Glenhaven Pond

Location	-79.3215, 43.8874 (634825, 4860736)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.3222, 43.8865 (634770, 4860640)
Catchment Area (ha)	0.00
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	8244-67JM9M
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	York Downs Pond

Location	-79.3673, 43.8943 (631131, 4861428)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.368, 43.894 (631082, 4861400)
Catchment Area (ha)	60.40
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	0175-5E9MG4
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Vine Cliff Pond

Location	-79.2438, 43.9102 (641015, 4863403)
Watershed/Subwatershed	Rouge
Receiver of discharge	Little Rouge Creek
Outlet location	-79.2439, 43.9108 (641008, 4863470)
Catchment Area (ha)	88.76
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	9254-547SLK
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Greensborough Pond

Location	-79.3054, 43.893 (636109, 4861388)
Watershed/Subwatershed	Rouge
Receiver of discharge	Eckhardt Creek
Outlet location	-79.3059, 43.8931 (636070, 4861390)
Catchment Area (ha)	138.20
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	0100-4NQQWS
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Berczy Pond

Location	-79.3662, 43.8872 (631239, 4860647)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3668, 43.8871 (631193, 4860630)
Catchment Area (ha)	37.00
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	5705-5BXHLR
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Artisan Trail Pond

Location	-79.3294, 43.8889 (634191, 4860894)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.3305, 43.888 (634101, 4860790)
Catchment Area (ha)	47.70
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Royal Troon Pond

Location	-79.2285, 43.8732 (642336, 4859310)
Watershed/Subwatershed	Rouge
Receiver of discharge	Box Grove Tributary
Outlet location	-79.228, 43.8722 (642374, 4859200)
Catchment Area (ha)	88.50
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	7706-5Y2QJT
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Golden Jubilee Greenway Pond #1

Location	-79.2237, 43.8742 (642715, 4859429)
Watershed/Subwatershed	Rouge
Receiver of discharge	Box Grove Tributary
Outlet location	-79.2265, 43.873 (642495, 4859290)
Catchment Area (ha)	227.88
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	5672-678K83
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Golden Jubilee Greenway Pond #2

Location	-79.3698, 43.8881 (630946, 4860731)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3701, 43.8874 (630927, 4860650)
Catchment Area (ha)	100.10
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	9455-75NNEM
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Princess Diana Drive Pond

Location	-79.3712, 43.8956 (630816, 4861568)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3696, 43.8949 (630944, 4861500)
Catchment Area (ha)	85.10
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	9676-888SBU
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Panorama Pond

Location	-79.3795, 43.9034 (630132, 4862417)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3794, 43.9027 (630146, 4862340)
Catchment Area (ha)	54.30
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	5155-6XYKJJ
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	West Cathedral Pond

Location	-79.2788, 43.8885 (638255, 4860928)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2773, 43.8889 (638371, 4860980)
Catchment Area (ha)	55.00
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	1696-63AQQS
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Roy Rainey Pond

Location	-79.2757, 43.8971 (638483, 4861887)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2769, 43.8974 (638390, 4861930)
Catchment Area (ha)	86.30
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	4571-4GUNJ3
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Raspberry Ridge Pond

Location	-79.2796, 43.8919 (638180, 4861306)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2785, 43.892 (638267, 4861310)
Catchment Area (ha)	95.00
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	4571-4GUNJ3
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	Edward Jeffreys Pond

Location	-79.2754, 43.8899 (638525, 4861087)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2758, 43.8895 (638494, 4861040)
Catchment Area (ha)	50.00
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	4571-4GUNJ3
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Golden Meadow Pond

Location	-79.2672, 43.8951 (639175, 4861682)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2661, 43.8948 (639262, 4861660)
Catchment Area (ha)	77.84
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3506-5PGPPN
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Monkhouse Pond

Location	-79.2622, 43.9102 (639534, 4863370)
Watershed/Subwatershed	Rouge
Receiver of discharge	Little Rouge Creek
Outlet location	-79.2626, 43.9106 (639505, 4863410)
Catchment Area (ha)	8.56
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	0936-89DQXL
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	Darren Hill Trail Pond

Location	-79.2257, 43.8616 (642580, 4858034)
Watershed/Subwatershed	Rouge
Receiver of discharge	Trib to Rouge River
Outlet location	-79.2268, 43.8612 (642500, 4857980)
Catchment Area (ha)	29.51
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3262-6EFMU4
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Box Grove Pond #1

Location	-79.2282, 43.8611 (642383, 4857970)
Watershed/Subwatershed	Rouge
Receiver of discharge	Trib to Rouge River
Outlet location	-79.2284, 43.8608 (642372, 4857930)
Catchment Area (ha)	9.79
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	2840-7WTQL9
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Box Grove Pond #2

Location	-79.2212, 43.8622 (642942, 4858110)
Watershed/Subwatershed	Rouge
Receiver of discharge	Box Grove Tributary
Outlet location	-79.2206, 43.8622 (642993, 4858100)
Catchment Area (ha)	14.65
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	7460-692TVB
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Box Grove Pond #3

Location	-79.2189, 43.8627 (643125, 4858167)
Watershed/Subwatershed	Rouge
Receiver of discharge	Box Grove Tributary
Outlet location	-79.2196, 43.8624 (643073, 4858130)
Catchment Area (ha)	51.88
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	7460-692TVB
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Box Grove Pond #4

Location	-79.2164, 43.8633 (643324, 4858231)
Watershed/Subwatershed	Rouge
Receiver of discharge	Box Grove Tributary
Outlet location	-79.2177, 43.8626 (643225, 4858160)
Catchment Area (ha)	30.49
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	7486-A6YJZZ
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Box Grove Pond #5

Location	-79.2268, 43.8508 (642524, 4856830)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2272, 43.8499 (642488, 4856730)
Catchment Area (ha)	72.49
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	6487-68DHEA
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Sanders Pond

Location	-79.2577, 43.8941 (639940, 4861585)
Watershed/Subwatershed	Rouge
Receiver of discharge	Exhibition Creek
Outlet location	-79.2578, 43.8943 (639929, 4861610)
Catchment Area (ha)	13.50
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	2239-4ZVJVZ
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Avida Pond

Location	-79.2441, 43.8977 (641019, 4862005)
Watershed/Subwatershed	Rouge
Receiver of discharge	Exhibition Creek
Outlet location	-79.2434, 43.8971 (641077, 4861950)
Catchment Area (ha)	47.35
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	2239-4ZVJVZ
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Alfred Paterson Pond

Location	-79.2942, 43.8996 (636995, 4862137)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.2946, 43.8993 (636962, 4862110)
Catchment Area (ha)	4.20
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	2132-8KDPPS
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Percy Reesor Parkette Pond
Location	-79.3333, 43.8949 (633863, 4861552)
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Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.3324, 43.8949 (633935, 4861550)
Catchment Area (ha)	11.80
Level of Treatment for suspended solids	Normal
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Angus Glen Community Centre Pond

Location	-79.3292, 43.8525 (634286, 4856851)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3299, 43.852 (634230, 4856790)
Catchment Area (ha)	18.00
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	2660-AK4R7B
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Markham Downtown Pond #1

Location	-79.3309, 43.8512 (634156, 4856701)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3314, 43.8513 (634115, 4856710)
Catchment Area (ha)	16.75
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	2660-AK4R7B
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Markham Downtown Pond #2

021-S701

Location	-79.3135, 43.8804 (635488, 4859969)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.313, 43.8806 (635525, 4860000)
Catchment Area (ha)	15.14
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	5416-97BGGE
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Berczy Square Pond

Location	-79.3027, 43.8827 (636347, 4860246)
Watershed/Subwatershed	Rouge
Receiver of discharge	Eckhardt Creek
Outlet location	-79.3018, 43.8825 (636421, 4860230)
Catchment Area (ha)	40.05
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	0329-8TBPEF
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	William Bartlett Drive-Pond

Location	-79.3107, 43.8692 (635737, 4858738)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3106, 43.869 (635742, 4858710)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Unionville Library Pond

Location	-79.3221, 43.8445 (634875, 4855974)
Watershed/Subwatershed	Rouge
Receiver of discharge	Concamar Tributary
Outlet location	-79.3218, 43.8458 (634899, 4856120)
Catchment Area (ha)	236.00
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	6290-78PNEQ
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Birchmount Rd Industrial Subd Pond

Location	-79.349, 43.8527 (632696, 4856840)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3491, 43.8527 (632686, 4856840)
Catchment Area (ha)	42.50
Level of Treatment for	Normal
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Apple Creek South Pond # 3

Location	-79.2878, 43.8496 (637623, 4856596)
Watershed/Subwatershed	Rouge
Receiver of discharge	Cresthaven Tributary
Outlet location	-79.2878, 43.8501 (637621, 4856650)
Catchment Area (ha)	27.30
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	John Canning Pond

Location	-79.3756, 43.8221 (630622, 4853398)
Watershed/Subwatershed	Don
Receiver of discharge	German Mills Creek
Outlet location	-79.3757, 43.8221 (630615, 4853390)
Catchment Area (ha)	4.67
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3-0591-90-916
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.2502, 43.8682 (640598, 4858724)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2499, 43.868 (640628, 4858700)
Catchment Area (ha)	9.60
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Rouge Valley Pond

Location	-79.3736, 43.8753 (630670, 4859310)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.3741, 43.8748 (630628, 4859250)
Catchment Area (ha)	59.50
Level of Treatment for suspended solids	Normal
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3-1476-91-006
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	Hillmount Park Pond

Location	-79.237, 43.9038 (641575, 4862693)
Watershed/Subwatershed	Rouge
Receiver of discharge	Little Rouge Creek
Outlet location	-79.237, 43.9044 (641577, 4862760)
Catchment Area (ha)	127.70
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	7533-5S6L9R
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Country Glen Pond

Location	-79.3507, 43.858 (632545, 4857428)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.3511, 43.8563 (632515, 4857240)
Catchment Area (ha)	119.10
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Apple Creek South Pond # 1 -East Cell

Location	-79.3512, 43.8571 (632512, 4857322)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.3507, 43.858 (632545, 4857428)
Catchment Area (ha)	2.10
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Apple Creek South #2 West Cell

Location	-79.345, 43.8447 (633037, 4855955)
Watershed/Subwatershed	Rouge
Receiver of discharge	Beaver Creek
Outlet location	-79.3444, 43.8403 (633094, 4855468)
Catchment Area (ha)	14.34
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	4656-64SN33
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	SE Quadrant Browns Corners Pond

Location	-79.3727, 43.8431 (630813, 4855729)
Watershed/Subwatershed	Don
Receiver of discharge	German Mills Creek
Outlet location	-79.3723, 43.8428 (630846, 4855700)
Catchment Area (ha)	46.00
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	0727-5U4JPZ
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	Commerce Valley East Pond

Location	-79.2984, 43.8717 (636722, 4859030)
Watershed/Subwatershed	Rouge
Receiver of discharge	Eckhardt Creek
Outlet location	-79.2986, 43.8713 (636704, 4858990)
Catchment Area (ha)	143.40
Level of Treatment for suspended solids	Basic
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	6475-4PMJWT
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Quantztown Pond

Location	-79.3455, 43.8819 (632916, 4860087)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3458, 43.8817 (632887, 4860060)
Catchment Area (ha)	4.40
Level of Treatment for suspended solids	Enhanced
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	9440-5PXJPB
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Heritage Woods Pond

Location	-79.351, 43.8574 (632526, 4857358)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.3512, 43.8561 (632511, 4857210)
Catchment Area (ha)	134.43
Level of Treatment for	Other
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3518, 43.8602 (632456, 4857661)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.3509, 43.859 (632529, 4857530)
Catchment Area (ha)	42.03
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.356, 43.8665 (632100, 4858362)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.355, 43.8658 (632181, 4858280)
Catchment Area (ha)	12.34
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	

Location	-79.3631, 43.8726 (631520, 4859030)
Watershed/Subwatershed	Rouge
Receiver of discharge	Applewood Creek
Outlet location	-79.3613, 43.8717 (631666, 4858930)
Catchment Area (ha)	0.85
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	

Location	-79.2561, 43.8887 (640076, 4860993)
Watershed/Subwatershed	Rouge
Receiver of discharge	Exhibition Creek
Outlet location	-79.2568, 43.8874 (640028, 4860840)
Catchment Area (ha)	117.36
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2448, 43.8922 (640976, 4861393)
Watershed/Subwatershed	Rouge
Receiver of discharge	Exhibition Creek
Outlet location	-79.2436, 43.8916 (641072, 4861340)
Catchment Area (ha)	117.36
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.281, 43.8395 (638193, 4855486)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2809, 43.8401 (638197, 4855550)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2673, 43.845 (639281, 4856118)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2657, 43.8439 (639410, 4856000)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2611, 43.8434 (639783, 4855948)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2593, 43.8425 (639929, 4855850)
Catchment Area (ha)	77.16
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2559, 43.8501 (640183, 4856702)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2554, 43.8505 (640227, 4856750)
Catchment Area (ha)	23.00
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.2817, 43.8342 (638148, 4854894)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2804, 43.8343 (638247, 4854910)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2688, 43.8363 (639181, 4855151)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2677, 43.8365 (639271, 4855170)
Catchment Area (ha)	0.00
Level of Treatment for	Other
Treatment for other	
Contaminants as required	N/A
Level of Volume control	Ν/Δ
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	Ν
Sanitary Overflows	
Notes	-

Location	-79.2526, 43.8393 (640476, 4855505)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2519, 43.839 (640535, 4855480)
Catchment Area (ha)	0.00
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.2535, 43.8365 (640412, 4855201)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2525, 43.8366 (640488, 4855210)
Catchment Area (ha)	19.61
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.3502, 43.8547 (632597, 4857054)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.35, 43.8546 (632611, 4857050)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3501, 43.8523 (632609, 4856789)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3497, 43.8522 (632643, 4856780)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3813, 43.8248 (630158, 4853692)
Watershed/Subwatershed	Don
Receiver of discharge	German Mills Creek
Outlet location	-79.381, 43.8245 (630184, 4853660)
Catchment Area (ha)	16.27
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-
Location	-79.2925, 43.8307 (637286, 4854482)
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Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.2927, 43.8298 (637273, 4854380)
Catchment Area (ha)	0.00
Level of Treatment for	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	-

Location	-79.2931, 43.8296 (637238, 4854365)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.2932, 43.8291 (637236, 4854300)
Catchment Area (ha)	0.00
Level of Treatment for	Other
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3138, 43.8288 (635578, 4854242)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.3138, 43.8284 (635576, 4854200)
Catchment Area (ha)	0.00
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3-1204-80-816
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.3122, 43.8239 (635722, 4853699)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.3124, 43.8233 (635700, 4853630)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3211, 43.8254 (635001, 4853856)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.3207, 43.8251 (635034, 4853820)
Catchment Area (ha)	64.75
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.3223, 43.8224 (634914, 4853518)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.3219, 43.8223 (634939, 4853500)
Catchment Area (ha)	64.75
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3021, 43.8484 (636478, 4856434)
Watershed/Subwatershed	Rouge
Receiver of discharge	Pan AM Tributary
Outlet location	-79.3021, 43.8486 (636472, 4856460)
Catchment Area (ha)	14.07
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3041, 43.8783 (636243, 4859753)
Watershed/Subwatershed	Rouge
Receiver of discharge	Eckhardt Creek
Outlet location	-79.304, 43.878 (636250, 4859720)
Catchment Area (ha)	8.19
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	-

Location	-79.3035, 43.8751 (636303, 4859397)
Watershed/Subwatershed	Rouge
Receiver of discharge	Eckhardt Creek
Outlet location	-79.3033, 43.8749 (636318, 4859380)
Catchment Area (ha)	14.46
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2657, 43.8809 (639326, 4860109)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2649, 43.8803 (639389, 4860040)
Catchment Area (ha)	35.27
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	-

Location	-79.2942, 43.849 (637105, 4856516)
Watershed/Subwatershed	Rouge
Receiver of discharge	Cresthaven Tributary
Outlet location	-79.294, 43.8493 (637126, 4856550)
Catchment Area (ha)	20.02
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2899, 43.8502 (637447, 4856654)
Watershed/Subwatershed	Rouge
Receiver of discharge	Cresthaven Tributary
Outlet location	-79.2899, 43.8502 (637450, 4856660)
Catchment Area (ha)	6.86
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2333, 43.8559 (641988, 4857380)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2327, 43.8561 (642033, 4857410)
Catchment Area (ha)	58.96
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	<null></null>
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.2731, 43.8469 (638808, 4856314)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2718, 43.8475 (638912, 4856390)
Catchment Area (ha)	0.00
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.2702, 43.8376 (639066, 4855292)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-
Catchment Area (ha)	0.00
Level of Treatment for	Other
Contaminants on required	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3288, 43.8611 (634300, 4857808)
Watershed/Subwatershed	Rouge
Receiver of discharge	Fonthill Creek
Outlet location	-79.3286, 43.8614 (634315, 4857840)
Catchment Area (ha)	22.57
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	2802-5Y4LJQ
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.325, 43.864 (634598, 4858130)
Watershed/Subwatershed	Rouge
Receiver of discharge	Fonthill Creek
Outlet location	-79.3244, 43.8636 (634645, 4858090)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2944, 43.8438 (637106, 4855944)
Watershed/Subwatershed	Rouge
Receiver of discharge	Cresthaven Tributary
Outlet location	-79.2941, 43.8439 (637131, 4855950)
Catchment Area (ha)	2.86
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2922, 43.902 (637149, 4862404)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2926, 43.9024 (637116, 4862450)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	8519-8NWPWP
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3348, 43.8566 (633831, 4857296)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3345, 43.8561 (633850, 4857240)
Catchment Area (ha)	13.83
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.2824, 43.8761 (637991, 4859548)
Watershed/Subwatershed	Rouge
Receiver of discharge	Milne Creek
Outlet location	-79.2826, 43.8757 (637978, 4859500)
Catchment Area (ha)	0.00
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	Stargel Park

Location	-79.323, 43.8897 (634703, 4860984)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.3231, 43.8904 (634695, 4861070)
Catchment Area (ha)	47.70
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2679, 43.8919 (639121, 4861323)
Watershed/Subwatershed	Rouge
Receiver of discharge	Exhibition Creek
Outlet location	-79.2677, 43.8917 (639138, 4861300)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	4571-4GUNJ3
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.284, 43.8922 (637828, 4861327)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2827, 43.8916 (637936, 4861260)
Catchment Area (ha)	93.50
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	4571-4GUNJ3
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2769, 43.8969 (638387, 4861865)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2765, 43.8958 (638420, 4861740)
Catchment Area (ha)	0.00
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	4571-4GUNJ3
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.3424, 43.8289 (633280, 4854202)
Watershed/Subwatershed	Rouge
Receiver of discharge	Don Mills Channel
Outlet location	-79.344, 43.8304 (633144, 4854370)
Catchment Area (ha)	2.52
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	8918-8GZJG7
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	R

Location	-79.367, 43.8875 (631171, 4860676)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3672, 43.8871 (631156, 4860620)
Catchment Area (ha)	37.02
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	5705-5BXHLR
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	Ν
Sanitary Overflows	
Notes	-

Location	-79.3016, 43.891 (636415, 4861166)
Watershed/Subwatershed	Rouge
Receiver of discharge	Burnedet Creek
Outlet location	-79.3, 43.8894 (636552, 4860990)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.2347, 43.8567 (641868, 4857472)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2346, 43.856 (641882, 4857390)
Catchment Area (ha)	0.00
Level of Treatment for	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	Ν
Notes	-

Location	-79.3687, 43.8941 (631025, 4861408)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3684, 43.8932 (631049, 4861310)
Catchment Area (ha)	60.42
Level of Treatment for	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	0175-5E9MG4
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.2856, 43.8438 (637811, 4855953)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2853, 43.8446 (637834, 4856040)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3683, 43.8287 (631196, 4854143)
Watershed/Subwatershed	Don
Receiver of discharge	German Mills Creek
Outlet location	-79.371, 43.8286 (630981, 4854130)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3291, 43.8606 (634274, 4857748)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.329, 43.8605 (634282, 4857740)
Catchment Area (ha)	1.04
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	2802-5Y4LJQ
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.345, 43.8439 (633036, 4855863)
Watershed/Subwatershed	Rouge
Receiver of discharge	Beaver Creek
Outlet location	-79.3442, 43.8437 (633103, 4855850)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	4656-64SN33
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

1006 - Stormwater Management LID

Location	-79.3177, 43.8807 (635150, 4859994)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.3181, 43.8807 (635117, 4859990)
Catchment Area (ha)	3.37
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	5 mm
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	3140-6W9N63
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

1005 - Stormwater Management LID

Location	-79.3182, 43.8792 (635113, 4859830)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.3184, 43.8794 (635094, 4859850)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	5 mm
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	3140-6W9N63
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-
1010 - Stormwater Management LID

Location	-79.391, 43.8153 (629404, 4852618)
Watershed/Subwatershed	Don
Receiver of discharge	East Don River
Outlet location	-79.3914, 43.8149 (629369, 4852570)
Catchment Area (ha)	1.60
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	5 mm
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

1018 - Stormwater Management LID

Location	-79.2272, 43.8836 (642412, 4860475)
Watershed/Subwatershed	Rouge
Receiver of discharge	Trib to Little Rouge
Outlet location	-79.2272, 43.8838 (642413, 4860500)
Catchment Area (ha)	0.80
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	5 mm
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

1022 - Stormwater Management LID

Location	-79.3688, 43.8876 (631027, 4860682)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3688, 43.8874 (631025, 4860660)
Catchment Area (ha)	100.00
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	5 mm
Design Storm	Quantity: N/A; Quality: N/A
Reference ECA(s)	9455-75NNEM
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.314, 43.8277 (635568, 4854116)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.3133, 43.8269 (635624, 4854030)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3-1204-80-816
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3254, 43.8634 (634570, 4858060)
Watershed/Subwatershed	Rouge
Receiver of discharge	Fonthill Creek
Outlet location	-79.3244, 43.8635 (634646, 4858080)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3873, 43.8057 (629722, 4851553)
Watershed/Subwatershed	Don
Receiver of discharge	Pomona Creek
Outlet location	-79.3872, 43.8054 (629726, 4851530)
Catchment Area (ha)	0.70
Level of Treatment for	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

Location	-79.3028, 43.8558 (636402, 4857253)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3032, 43.8556 (636367, 4857230)
Catchment Area (ha)	0.00
Level of Treatment for	Other
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	8152-7XBHTT
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

Location	-79.3175, 43.8223 (635292, 4853515)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.3181, 43.8213 (635246, 4853400)
Catchment Area (ha)	3.90
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	-
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

1008 - Stormwater Management Structure

Location	-79.3873, 43.8057 (629722, 4851553)
Watershed/Subwatershed	Don
Receiver of discharge	Pomona Creek
Outlet location	-79.3872, 43.8054 (629726, 4851530)
Catchment Area (ha)	0.70
Level of Treatment for suspended solids	Other
Treatment for other Contaminants, as required	N/A
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	N/A
Reference Sewage Works as part of treatment train	N/A
Brief Description	N/A
Receive Emergency Sanitary Overflows	N
Notes	-

1020 - Stormwater Management Structure

Location	-79.3175, 43.8223 (635292, 4853515)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.3181, 43.8213 (635246, 4853400)
Catchment Area (ha)	3.90
Level of Treatment for	Other
suspended solids	
I reatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

1024 - Stormwater Management Structure

Location	-79.314, 43.8277 (635568, 4854116)
Watershed/Subwatershed	Highland
Receiver of discharge	Highland Creek
Outlet location	-79.3133, 43.8269 (635624, 4854030)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	Quantity: 100-yr; Quality: N/A
Reference ECA(s)	3-1204-80-816
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	N/A
Receive Emergency	N
Sanitary Overflows	
Notes	-

OGS-001 – Oil and Grit Separator

Location	-79.3343, 43.8467 (633888, 4856190)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.3323, 43.8506 (634046, 4856626)
Catchment Area (ha)	2.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 1500
Receive Emergency	Ν
Sanitary Overflows	
Notes	8100 Warden Avenue

OGS-002 - Oil and Grit Separator

Location	-79.2186, 43.859 (643158, 4857751)
Watershed/Subwatershed	Rouge
Receiver of discharge	Little Rouge River Trib
Outlet location	-79.2188, 43.859 (643143, 4857751)
Catchment Area (ha)	2.81
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	3865-8MRNQV
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU40_30
Receive Emergency	N
Sanitary Overflows	
Notes	Box Grove Collector

OGS-003 - Oil and Grit Separator

Location	-79.2863, 43.8735 (637684, 4859249)
Watershed/Subwatershed	Rouge
Receiver of discharge	Milne Creek
Outlet location	-79.281, 43.8741 (638111, 4859325)
Catchment Area (ha)	4.94
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
Brief Description	STC 3000
Receive Emergency	N
Sanitary Overflows	
Notes	Centennial Community Centre

OGS-004 - Oil and Grit Separator

Location	-79.2299, 43.883 (642199, 4860403)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.2307, 43.8826 (642134, 4860350)
Catchment Area (ha)	0.35
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 300
Receive Emergency	N
Sanitary Overflows	
Notes	Cornell Community Centre

OGS-005 – Oil and Grit Separator

Location	-79.2288, 43.8834 (642284, 4860447)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.2307, 43.8826 (642134, 4860350)
Catchment Area (ha)	0.29
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 300
Receive Emergency	N
Sanitary Overflows	
Notes	Cornell Community Centre

OGS-006 - Oil and Grit Separator

Location	-79.3068, 43.8564 (636076, 4857319)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.3067, 43.8565 (636087, 4857328)
Catchment Area (ha)	1.12
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	9772-7SVPM7
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU30_20
Receive Emergency	N
Sanitary Overflows	
Notes	Enterprise Boulevard Phase 2 Unionville Gate

OGS-007 – Oil and Grit Separator

Location	-79.3518, 43.8318 (632514, 4854514)
Watershed/Subwatershed	Rouge
Receiver of discharge	Trib to German Mills
Outlet location	-79.3638, 43.8296 (631554, 4854245)
Catchment Area (ha)	0.66
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 300
Receive Emergency	N
Sanitary Overflows	
Notes	Fire Station 92

OGS-008 – Oil and Grit Separator

Location	-79.2895, 43.8953 (637380, 4861669)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2802, 43.8884 (638146, 4860916)
Catchment Area (ha)	0.74
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 300
Receive Emergency	N
Sanitary Overflows	
Notes	Fire Station 98

OGS-009 – Oil and Grit Separator

Location	-79.2271, 43.8838 (642415, 4860493)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.2259, 43.8795 (642528, 4860020)
Catchment Area (ha)	0.81
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU20_15_4
Receive Emergency	N
Sanitary Overflows	
Notes	Fire Station 99

OGS-010 – Oil and Grit Separator

Location	-79.324, 43.8474 (634713, 4856294)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.3235, 43.8476 (634754, 4856309)
Catchment Area (ha)	2.05
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	2258-9UZQU5
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 4000
Receive Emergency	N
Sanitary Overflows	
Notes	Frontage Street

OGS-011 – Oil and Grit Separator

Location	-79.2959, 43.9026 (636847, 4862469)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.296, 43.9026 (636843, 4862467)
Catchment Area (ha)	0.73
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	2132-8KDPPS
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU20_15
Receive Emergency	N
Sanitary Overflows	
Notes	Lasseter Subdivision

OGS-012 – Oil and Grit Separator

Location	-79.2583, 43.8685 (639945, 4858739)
Watershed/Subwatershed	Rouge
Receiver of discharge	Rouge River
Outlet location	-79.2584, 43.8687 (639938, 4858763)
Catchment Area (ha)	0.85
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	6031-9QMJQK
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 750
Receive Emergency	N
Sanitary Overflows	
Notes	Main Street Markham

OGS-013 – Oil and Grit Separator

Location	-79.2588, 43.8699 (639903, 4858892)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.258, 43.8697 (639967, 4858876)
Catchment Area (ha)	0.66
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	6031-9QMJQK
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 2000
Receive Emergency	N
Sanitary Overflows	
Notes	Main Street Markham

OGS-014 – Oil and Grit Separator

Location	-79.2594, 43.8713 (639857, 4859047)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.2597, 43.872 (639826, 4859125)
Catchment Area (ha)	0.75
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	6031-9QMJQK
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 750
Receive Emergency	N
Sanitary Overflows	
Notes	Main Street Markham

OGS-015 – Oil and Grit Separator

Location	-79.2599, 43.873 (639811, 4859239)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.26, 43.8727 (639801, 4859201)
Catchment Area (ha)	2.46
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	6031-9QMJQK
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 9000
Receive Emergency	N
Sanitary Overflows	
Notes	Main Street Markham

OGS-016 - Oil and Grit Separator

Location	-79.2599, 43.873 (639811, 4859241)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.26, 43.8727 (639801, 4859201)
Catchment Area (ha)	2.46
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	6031-9QMJQK
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 9000
Receive Emergency	N
Sanitary Overflows	
Notes	Main Street Markham

OGS-017 – Oil and Grit Separator

Location	-79.2599, 43.873 (639809, 4859241)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.26, 43.8727 (639801, 4859201)
Catchment Area (ha)	2.46
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	6031-9QMJQK
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 9000
Receive Emergency	N
Sanitary Overflows	
Notes	Main Street Markham

OGS-018 – Oil and Grit Separator

Location	-79.2599, 43.873 (639810, 4859243)
Watershed/Subwatershed	Rouge
Receiver of discharge	Robinson Creek
Outlet location	-79.26, 43.8727 (639801, 4859201)
Catchment Area (ha)	2.46
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	6031-9QMJQK
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 9000
Receive Emergency	N
Sanitary Overflows	
Notes	Main Street Markham

OGS-019 – Oil and Grit Separator

Location	-79.2646, 43.8935 (639386, 4861509)
Watershed/Subwatershed	Rouge
Receiver of discharge	Mount Joy Creek
Outlet location	-79.2623, 43.8941 (639569, 4861576)
Catchment Area (ha)	0.68
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 750
Receive Emergency	N
Sanitary Overflows	
Notes	Markham Museum

OGS-020 – Oil and Grit Separator

Location	-79.3085, 43.8549 (635946, 4857151)
Watershed/Subwatershed	Rouge
Receiver of discharge	Pan Am Branch
Outlet location	-79.3083, 43.8544 (635959, 4857093)
Catchment Area (ha)	1.17
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 300
Receive Emergency	N
Sanitary Overflows	
Notes	Markham Pan AM Centre

OGS-021 – Oil and Grit Separator

Location	-79.3096, 43.8542 (635858, 4857069)
Watershed/Subwatershed	Rouge
Receiver of discharge	Pan Am Branch
Outlet location	-79.3084, 43.8544 (635957, 4857088)
Catchment Area (ha)	1.63
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 4000
Receive Emergency	N
Sanitary Overflows	
Notes	Markham Pan AM Centre

OGS-022 - Oil and Grit Separator

Location	-79.2669, 43.9045 (639175, 4862727)
Watershed/Subwatershed	Rouge
Receiver of discharge	Mount Joy Creek
Outlet location	-79.2644, 43.9034 (639379, 4862604)
Catchment Area (ha)	1.29
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU20_20_5
Receive Emergency	N
Sanitary Overflows	
Notes	Markham Road and Castlemore

OGS-023 – Oil and Grit Separator

Location	-79.2646, 43.8947 (639381, 4861638)
Watershed/Subwatershed	Rouge
Receiver of discharge	Mount Joy Creek
Outlet location	-79.2623, 43.8941 (639569, 4861576)
Catchment Area (ha)	2.10
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU30_25_6
Receive Emergency	N
Sanitary Overflows	
Notes	Markham Road, north of 16th

OGS-024 – Oil and Grit Separator

Location	-79.2659, 43.9004 (639265, 4862271)
Watershed/Subwatershed	Rouge
Receiver of discharge	Mount Joy Creek
Outlet location	-79.2628, 43.9007 (639511, 4862306)
Catchment Area (ha)	1.54
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU20_20_5
Receive Emergency	N
Sanitary Overflows	
Notes	Markham Road, south of Bur Oak

OGS-025 – Oil and Grit Separator

Location	-79.2676, 43.9076 (639113, 4863064)
Watershed/Subwatershed	Rouge
Receiver of discharge	Mount Joy Creek
Outlet location	-79.2674, 43.9075 (639128, 4863054)
Catchment Area (ha)	0.85
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU20_20
Receive Emergency	N
Sanitary Overflows	
Notes	Markham Road, south of Major Mackenzie
OGS-026 – Oil and Grit Separator

Location	-79.3421, 43.828 (633306, 4854108)
Watershed/Subwatershed	Rouge
Receiver of discharge	Don Mills Channel
Outlet location	-79.3524, 43.8217 (632493, 4853390)
Catchment Area (ha)	0.45
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 300
Receive Emergency	N
Sanitary Overflows	
Notes	Rodick Road Extension

OGS-027 – Oil and Grit Separator

Location	-79.3453, 43.8414 (633021, 4855588)
Watershed/Subwatershed	Rouge
Receiver of discharge	Beaver Creek
Outlet location	-79.345, 43.8413 (633039, 4855578)
Catchment Area (ha)	0.16
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 750
Receive Emergency	N
Sanitary Overflows	
Notes	Rodick Road Extension

OGS-028 – Oil and Grit Separator

Location	-79.3037, 43.8556 (636333, 4857235)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.3066, 43.8565 (636092, 4857330)
Catchment Area (ha)	1.29
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 750
Receive Emergency	N
Sanitary Overflows	
Notes	(blank)

OGS-029 – Oil and Grit Separator

Location	-79.3026, 43.8575 (636412, 4857448)
Watershed/Subwatershed	Rouge
Receiver of discharge	Trib to Rouge River
Outlet location	-79.2911, 43.8604 (637331, 4857787)
Catchment Area (ha)	1.37
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 750
Receive Emergency	N
Sanitary Overflows	
Notes	South Unionville - Outlet to Castan Ave

OGS-030 - Oil and Grit Separator

Location	-79.2646, 43.8525 (639477, 4856959)
Watershed/Subwatershed	Rouge
Receiver of discharge	Morningside Creek
Outlet location	-79.2529, 43.8466 (640436, 4856319)
Catchment Area (ha)	3.50
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU30_30W
Receive Emergency	N
Sanitary Overflows	
Notes	Southeast Community Centre

OGS-032 - Oil and Grit Separator

Location	-79.2188, 43.8598 (643144, 4857845)
Watershed/Subwatershed	Rouge
Receiver of discharge	Little Rouge River Trib
Outlet location	-79.2188, 43.859 (643143, 4857751)
Catchment Area (ha)	3.27
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	4557-89RJ9X
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU40_30_8
Receive Emergency	N
Sanitary Overflows	
Notes	Vettese Court - Emerald Trail Subdivision

OGS-033 – Oil and Grit Separator

Location	-79.3985, 43.8103 (628806, 4852051)
Watershed/Subwatershed	Don
Receiver of discharge	Pomona Creek
Outlet location	-79.3992, 43.8101 (628749, 4852026)
Catchment Area (ha)	70.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	8740-9QXMWW
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PSWC70_70_12
Receive Emergency	N
Sanitary Overflows	
Notes	West Thornhill Phase 1A (Doncrest Drive)

OGS-034 - Oil and Grit Separator

Location	-79.3705, 43.8892 (630883, 4860859)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3703, 43.8888 (630904, 4860816)
Catchment Area (ha)	4.82
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	3935-7J6N7U
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 14000
Receive Emergency	N
Sanitary Overflows	
Notes	Woodbine Avenue By-Pass

OGS-035 – Oil and Grit Separator

Location	-79.3755, 43.9124 (630433, 4863424)
Watershed/Subwatershed	Rouge
Receiver of discharge	Berczy Creek
Outlet location	-79.3757, 43.9127 (630420, 4863456)
Catchment Area (ha)	1.50
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	1947-87RJ5R
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU30_30
Receive Emergency	N
Sanitary Overflows	
Notes	Woodbine Avenue By-Pass

OGS-036 - Oil and Grit Separator

Location	-79.3746, 43.9143 (630500, 4863639)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.3757, 43.9145 (630413, 4863659)
Catchment Area (ha)	0.96
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	1947-87RJ5R
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU20_25
Receive Emergency	N
Sanitary Overflows	
Notes	Woodbine Avenue By-Pass

OGS-037 – Oil and Grit Separator

Location	-79.3785, 43.9036 (630210, 4862442)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3786, 43.9032 (630206, 4862400)
Catchment Area (ha)	2.29
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	4207-7VVNRM
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU40_30_8
Receive Emergency	N
Sanitary Overflows	
Notes	Woodbine Avenue By-Pass

OGS-038 – Oil and Grit Separator

Location	-79.3677, 43.8869 (631117, 4860604)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3677, 43.8869 (631117, 4860604)
Catchment Area (ha)	0.86
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	3935-7J6N7U
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 3000
Receive Emergency	N
Sanitary Overflows	
Notes	Woodbine Avenue By-Pass

OGS-039 – Oil and Grit Separator

Location	-79.3677, 43.8868 (631119, 4860593)
Watershed/Subwatershed	Rouge
Receiver of discharge	Carlton Creek
Outlet location	-79.3677, 43.8868 (631119, 4860593)
Catchment Area (ha)	0.20
Level of Treatment for	Enhanced
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	3935-7J6N7U
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 300
Receive Emergency	N
Sanitary Overflows	
Notes	Woodbine Avenue By-Pass

OGS-040 – Oil and Grit Separator

Location	-79.2422, 43.8391 (641308, 4855508)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.2417, 43.8394 (641347, 4855541)
Catchment Area (ha)	3.76
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 4000
Receive Emergency	N
Sanitary Overflows	
Notes	Villages of Fairtree

OGS-041 – Oil and Grit Separator

Location	-79.2556, 43.8776 (640144, 4859758)
Watershed/Subwatershed	Rouge
Receiver of discharge	Mount Joy Creek
Outlet location	-79.2552, 43.8772 (640174, 4859716)
Catchment Area (ha)	1.61
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 1000
Receive Emergency	N
Sanitary Overflows	
Notes	Houghton Boulevard

OGS-043 – Oil and Grit Separator

Location	-79.2833, 43.8756 (637922, 4859490)
Watershed/Subwatershed	Rouge
Receiver of discharge	Milne Creek
Outlet location	-79.2824, 43.8755 (637992, 4859476)
Catchment Area (ha)	3.88
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	STC 5000
Receive Emergency	N
Sanitary Overflows	
Notes	Sunway Square

OGS-047 – Oil and Grit Separator

Location	-79.4122, 43.8038 (627718, 4851309)
Watershed/Subwatershed	Don
Receiver of discharge	East Don Tributary
Outlet location	-79.4071, 43.8077 (628120, 4851744)
Catchment Area (ha)	2.74
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	5491-APNKE6
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS 5668-10
Receive Emergency	N
Sanitary Overflows	
Notes	West Thornhill Phase 2B (Grandview Park)

OGS-048 – Oil and Grit Separator

Location	-79.3036, 43.8531 (636343, 4856957)
Watershed/Subwatershed	Rouge
Receiver of discharge	N/A
Outlet location	-79.3037, 43.8531 (636335, 4856956)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	<null></null>
Receive Emergency	N
Sanitary Overflows	
Notes	PESHAWAR AVE In south end of court near double cb

OGS-050 – Oil and Grit Separator

Location	-79.4092, 43.8034 (627964, 4851268)
Watershed/Subwatershed	Don
Receiver of discharge	East Don Tributary
Outlet location	-79.4046, 43.8067 (628327, 4851640)
Catchment Area (ha)	2.40
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	8644-B3GJEW
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU 5640_10
Receive Emergency	N
Sanitary Overflows	
Notes	130 GRANDVIEW AVE

OGS-051 – Oil and Grit Separator

Location	-79.409, 43.8033 (627982, 4851260)
Watershed/Subwatershed	Don
Receiver of discharge	East Don Tributary
Outlet location	-79.4046, 43.8067 (628327, 4851640)
Catchment Area (ha)	6.20
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	8644-B3GJEW
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU 5640_10
Receive Emergency	N
Sanitary Overflows	
Notes	162 HIGHLAND PARK BLVD

OGS-052 - Oil and Grit Separator

Location	-79.3159, 43.8764 (635304, 4859526)
Watershed/Subwatershed	Rouge
Receiver of discharge	Bruce Creek
Outlet location	-79.3163, 43.8764 (635268, 4859525)
Catchment Area (ha)	0.00
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	N/A
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	HS 10
Receive Emergency	Ν
Sanitary Overflows	
Notes	ADJACENT TO POND 70

OGS-053 – Oil and Grit Separator

Location	-79.4023, 43.8042 (628514, 4851362)
Watershed/Subwatershed	Don
Receiver of discharge	East Don Tributary
Outlet location	-79.4003, 43.8045 (628672, 4851403)
Catchment Area (ha)	6.71
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	2444-A9DL4X
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU4040_8
Receive Emergency	N
Sanitary Overflows	
Notes	Grandview North of Pinevale

OGS-054 – Oil and Grit Separator

Location	-79.4022, 43.8039 (628522, 4851336)
Watershed/Subwatershed	Don
Receiver of discharge	East Don Tributary
Outlet location	-79.4003, 43.8045 (628672, 4851403)
Catchment Area (ha)	5.53
Level of Treatment for	Other
suspended solids	
Treatment for other	N/A
Contaminants, as required	
Level of Volume control	N/A
Design Storm	N/A
Reference ECA(s)	2444-A9DL4X
Reference Sewage Works	N/A
as part of treatment train	
Brief Description	CDS PMSU4040_8
Receive Emergency	N
Sanitary Overflows	
Notes	Grandview Ave South of Pinevale