Diversity and conservation status of lichens and allied fungi in the Greater Toronto Area: results from four years of the Ontario BioBlitz
Richard Troy McMullin, Katherine Drotos, David Ireland, and Hanna Dorval

APPENDIX S1. Collection details of specimens examined. Species preceded by a dagger † are allied fungi traditionally treated with lichens.

**Acarospora fuscata** (Schrad.) Arnold


**Acarospora glaucocarpa** (Ach.) Köhr.

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Belfountain Conservation Area, Gorge Trail, within a mixed-wood forest, in basin along river below falls, northwest side of the river, saxicolous on calcareous rock, 13.vi.2016, R.T. McMullin 18001 (CANL).

**Acarospora moenium** (Vain.) Räsänen


**Acrocordia cavata** (Ach.) R.C Harris

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, south end of Dominion Trail, in a *Thuja occidentalis* and *Abies balsamea* dominated swamp, corticolous on *Populus* sp., 14.vi.2016, R.T. McMullin 17910 (CANL). YORK REGION. Don River Watershed, Vaughan, natural area along the east side of Dufferin, ~800 m north of Major Mackenzie, in *T. occidentalis* and hardwood swamp, corticolous on a deciduous snag, 14.vi.2015, R.T. McMullin 15611 (CANL).

**Alyxia varia** Pers.


**Amandinea dakotensis** (H. Magn.) P. May & Sheard

**CANADA. ONTARIO. YORK REGION.** Don River Watershed, Vaughan, Baker’s Woods, corner of Thornhill Woods Dr. and Highway 7, within a mature mixed-wood forest dominated by *Acer saccharum*, corticolous on a deciduous snag, 14.vi.2015, R.T. McMullin 15638 (CANL).

**Amandinea punctata** (Hoffm.) Coppins & Scheid

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, ~100 m east of main parking lot, surrounded by exposed gravel, rocks, and boulders, scattered shrubs, and patches of grass, corticolous on *Pinus strobus*, 11.vi.2016, R.T. McMullin 17877 (CANL), fork of Dominion and Bruce Trails, north of *T. occidentalis* and *A. balsamea* swamp, in a mixed-wood deciduous-dominated forest, corticolous on a branch, 14.vi.2016, R.T. McMullin 17911 (CANL), half-way down ridge, lignicolous on an old and exposed *Thuja* fence post, 13.vi.2016, R.T. McMullin 17923 (CANL). YORK REGION. Don River Watershed, Vaughan, Baker’s Woods, corner of Thornhill Woods Dr. and Highway 7, lignicolous on *Thuja* fence rails between parking lot and playground, 14.vi.2015, R.T. McMullin 15606 (CANL), Humber River Watershed,McMichael Canadian Art Collection grounds, lignicolous on exposed wood, 24.v.2014, R.T. McMullin 14184 (OAC). Rouge River Watershed, Rouge National Urban Park, Woodland Trail, mature mixed-wood forest with large and exposed deciduous trees, corticolous on *Acer nigrum*, 19.ix.2013, R.T. McMullin 12535 (OAC).
Arthonia caudata Willey


Arthonia helvola (Nyl.) Nyl.


Arthonia radiata (Pers.) Ach.

CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, fork of the Dominion and Bruce Trails, just north of *T. occidentalis* and *A. balsamea* swamp, in a mixed-wood deciduous-dominated forest, corticolous on *Acer* sp., 14.vi.2016, R.T. McMullin 17915 (CANL).

Aspicilia cinerea (L.) Körb.


Bacidia rubella (Hoffm.) A. Massal.


Bilimbia sabuletorum (Schreb.) Arnold


Caloplaca arenaria (Pers.) Müll. Arg.

CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, in an exposed area ~50 m west of the main parking lot, surrounded by exposed gravel, rocks, and boulders, scattered shrubs and grasses, saxicolous on non-calcareous rock, 11.vi.2016, R.T. McMullin 17875 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Red Trail, Lookout Point, saxicolous on an exposed non-calcareous boulder, 24.v.2014, R.T. McMullin 14096 (OAC).

Caloplaca cerina (Ehrh. ex Hedw.) Th. Fr.

Caloplaca feracissima H. Magn.
CANDADA. ONTARIO. PEEL REGION. Credit River Watershed, Belfountain Conservation Area, adjacent to the main parking lot, saxicolous on exposed concrete in the parking lot, 13.vi.2016, R.T. McMullin 17958 (CANL), Humber River Watershed, Albion Hills Conservation Area, near gatehouse at the entrance to the campground, saxicolous on exposed concrete with partial shade from the adjacent forest, 24.v.2014, R.T. McMullin 14168 (OAC).

Caloplaca flavovirescens (Wulfen) Dalla Torre & Sarth.
CANDADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, saxicolous on a large exposed boulder in the Credit River, ~85 m south of the falls, 13.vi.2016, R.T. McMullin 17887 (CANL), Belfountain Conservation Area, at the edge of a mixed-wood deciduous-dominated forest along a river basin, saxicolous on a rock wall above the falls, 13.vi.2016, R.T. McMullin 17969 (CANL).

Caloplaca holocarpa (Hoffm. ex Ach.) A.E. Wade
CANDADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, along the Credit River, ~145 m downstream of the falls, in a large river valley on large exposed boulders in and along the river, saxicolous on rock, 13.vi.2016, R.T. McMullin 17883 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Red Trail, Lookout Point, saxicolous on an exposed boulder, 24.v.2014, R.T. McMullin 14155 (OAC).

Caloplaca pyracea (Ach.) Th. Fr.

Candelariella concolor (Dicks.) Stein

Candelariella aurella (Hoffm.) Zahlbr.
CANDADA. ONTARIO. PEEL REGION. Credit River Watershed, ~100 m west of main parking lot, saxicolous on calcareous rock, 11.vi.2016, R.T. McMullin 12542 (CANL), McMichael Canadian Art Collection grounds, near Wedding Hill, in a second-growth mixed-wood forest, corticolous on Fraxinus americana, 24.v.2014, R.T. McMullin 14132 (OAC).

Candelariella efflorescens R.C. Harris & W.R. Buck
CANDADA. ONTARIO. PEEL REGION. Credit River Watershed, Belfountain Conservation Area, Gorge Loop Trail, ~100 m east of the falls, in a mixed-wood forest, corticolous on fallen B. papyrifera, 13.vi.2016, R.T. McMullin 17981 (CANL). YORK REGION. Don River Watershed, Vaughan, Baker’s Woods, Corner of Thornhill Woods Dr. and Highway 7, lignicolous on exposed fence rail between parking lot and...

*Candelariella vitellina* (Hoffm.) Müll. Arg.


*Catillaria nigroclavata* (Nyl.) Schuler

**CANADA. ONTARIO.** PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, ~100 m east of main parking lot, among exposed gravel, rocks, and scattered boulders, scattered shrubs and patches of grass, corticolous on *P. strobos*, 11.vi.2016, R.T. McMullin 17878 (CANL), at the fork of Dominion and Bruce Trails, just north of a *T. occidentalis* and *A. balsamea* swamp, in a mixed-wood deciduous-dominated forest, corticolous on a fallen branch, 14.vi.2016, R.T. McMullin 17912 (CANL), YORK REGION. Don River Watershed, Vaughan, Nevada Park, trail off Hunterwood Chase, matured mixed-wood forest, corticolous on a snag, 14.vi.2015, R.T. McMullin 15616 (CANL), Humber River Watershed, McMichael Canadian Art Collection grounds, near Wedding Hill, in a second-growth forest, corticolous on *P. strobos*, 24.v.2014, R.T. McMullin 14181 (OAC), Rouge River Watershed, Rouge Valley Conservation Centre, exposed tree on a cultivated lawn, corticolous on Elaeagnus angustifolia, 19.ix.2013, R.T. McMullin 12569 (OAC).

*Chae nothecopsis debilis* (Turner & Borrer ex Sm.) Tibell

**CANADA. ONTARIO.** PEEL REGION. Credit River Watershed, Silver Creek Conservation Area, Bruce Trail, ~350 m southeast on Side Road 27, in a mature mixed-wood deciduous-dominated forest, lignicolous on a stump, 10.vi.2016, R.T. McMullin 17977 (CANL).

*Chrysothrix caesia* (Flot.) Körb.

**CANADA. ONTARIO.** PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, eastern corner of the main parking lot, exposed mature trees adjacent to the main parking lot, corticolous on Quercus rubra, 11.vi.2016, R.T. McMullin 17861 (CANL), Belfountain Conservation Area, adjacent to main parking lot, exposed trees adjacent to main parking lot, corticolous on Fraxinus sp., 13.vi.2016, R.T. McMullin 17960 (CANL), Humber River Watershed, Albion Hills Conservation Area, second-growth trees along path to the splash pad park, corticolous on Fraxinus sp., 24.v.2014, R.T. McMullin 14085 (OAC), Glen Haffy Conservation Area, Blue Trail, amongst exposed trees on forest edge, corticolous on A. saccharum, 24.v.2014, R.T. McMullin 14151 (OAC), YORK REGION. Don River Watershed, Vaughan, Nevada Park, trail off Hunterwood Chase, mature mixed-wood forest, corticolous on a Fraxinus sp. snag, 14.vi.2015, R.T. McMullin 15613 (CANL), Rouge River Watershed, Rouge Valley Conservation Centre, exposed tree on cultivated lawn, corticolous on E. angustifolia, 19.ix.2013, R.T. McMullin 12563 (OAC).

*Cladonia cenotea* (Ach.) Schaer.

**CANADA. ONTARIO.** PEEL REGION. Humber River Watershed, Albion Hills Conservation Area, near gatehouse at the entrance to the campground, lignicolous on an old stump along a river and partially exposed within a mature forest, 24.v.2014, R.T. McMullin 14162 (OAC).

*Cladonia chlorophgae* (Flörke ex Sommerf.) Spreng.


†*Chae nothecopsis debilis* (Turner & Borrer ex Sm.) Tibell

**CANADA. ONTARIO.** PEEL REGION. Rouge River Watershed, Silver Creek Conservation Area, Bruce Trail, ~350 m southeast on Side Road 27, in a mature mixed-wood deciduous-dominated forest, lignicolous on a stump, 10.vi.2016, R.T. McMullin 17977 (CANL).
**Cladonia coniocraea (Flörke) Spreng.**


**Cladonia crispata (Ach.) Flörke.**

**CANADA. ONTARIO. PEEL REGION.** Humber River Watershed, Albion Hill Conservation Area, near gatehouse at the entrance to the campground, lignicolous on an old stump along a stream, partially shaded by a mature mixed-wood deciduous-dominated forest, 24.v.2014, *R.T. Mcmullin 14094* (OAC).

**Cladonia cristatella Tuck.**


**Cladonia cryptochlorophaea Asahina**


**Cladonia decorticata (Flörke) Spreng.**


**Cladonia digitata (L.) Hoffm.**


**Cladonia macilenta var. bacillaris (Genth) Schaer.**


**Cladonia ochrochlora Flörke**


**Cladonia pocillum (Ach.) Grognot**


**Cladonia pyxidata (L.) Hoffm.**

**CANADA. ONTARIO. YORK REGION.** Rouge River Watershed, Rouge National Urban Park, Orchard Trail, in a marsh with a high concentration of snags and logs, surrounded by mature mixed-wood forest,

**Cladonia rei Schaefer.**

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, on a *Thuja* fence along Dominion Rd., terricolous on thin soil on fence rail, 14.vi.2016, R.T. McMullin 17921 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Blue Trail, along a stream running beside the Blue Trail in a mature second-growth mixed-wood forest, terricolous on mossy soil, 24.v.2014, R.T. McMullin 14182 (OAC).

**Cladonia scabriuscula* (Delise) Nyl.

**CANADA. ONTARIO. PEEL REGION.** Humber River Watershed, Albion Hills Conservation Area, near gatehouse at the entrance to the campground, lignicolous on an old stump along a stream, partially shaded by a mature mixed-wood forest, 24.v.2014, R.T. McMullin 14180 (OAC).

**Cladonia hypocenomycis** D. Hawksw.


**Coenogonium pineti** Lücking & Lumbsch


**Cyphelium tigillare** (Ach.) Ach.

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, Meadow Trail, lignicolous on an old *Thuja* fence ~1 km southwest of main parking lot, 14.vi.2016, R.T. McMullin 17926 (CANL).

**Dictyocatenulata alba** Finley & E.F. Morris

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, Dominion Trail, ~20 m from the river, in a mixed-wood deciduous-dominated forest, corticolous on a mature *B. alleghaniensis*, 14.vi.2016, R.T. McMullin 17937 (CANL), Belfountain Conservation Area, Gorge Loop Trail, east of the falls, in a mixed-wood deciduous-dominated forest near the river basin, along a white clay stream, corticolous on a *B. papyrifera* snag, 13.vi.2016, R.T. McMullin 17965 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Blue Trail, along a stream running beside the Blue Trail in mature second-growth mixed-wood forest, corticolous on *B. alleghaniensis*, 24.v.2014, R.T. McMullin 14105 (OAC). YORK REGION. Rouge River Watershed, Vista Trail, in a mixed-wood forest dominated by conifers in a shaded valley, corticolous on *B. alleghaniensis*, 19.ix.2013, R.T. McMullin 12558 (OAC).

**Dimelaena oreina** (Ach.) Norman


**Diplotomma venustum** (Körber) Körber

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Belfountain Conservation Area, at the edge of a mixed-wood deciduous-dominated forest along the river basin, saxicolous on a rock wall above the falls, 13.vi.2016, R.T. McMullin 17968 (CANL).

**Evernia mesomorpha** Nyl.


**Flavoparmelia caperata** (L.) Hale

**CANADA. ONTARIO. MUNICIPALITY OF TORONTO. PEEL REGION.** Credit River Watershed, Credit Provincial Park, eastern corner of the main parking lot, exposed mature trees adjacent to the main parking lot, corticolous on *Acer* sp., 11.vi.2016, R.T. McMullin 17866 (CANL), Dominion Trail, ~400 m north of the Bruce Trail, in a mixed-wood deciduous-dominated forest, corticolous on an exposed *Ulmus* sp., 13.vi.2016, R.T. McMullin 17933 (CANL), Silver Creek Conservation Area, along 8th line, ~750 m southeast of Side Road 27, in a mature mixed-wood deciduous-dominated forest, corticolous on *A. saccharum*, 10.vi.2016, R.T. McMullin 17989 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Blue Trail, in a mature mixed-wood second-growth forest, corticolous on a recently fallen deciduous tree, 24.v.2014, R.T. McMullin 14083 (OAC), YORK REGION. Don River Watershed, Vaughan, Baker’s Woods, corner of
Flavopunctelia flaventior (Stirt.) Hale
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, on Dominion Rd., lichenicolous on a Thuja fence post, 14 vi. 2016, R.T. McMullin 17924 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Red Trail, Lookout Point, exposed trees near the parking lot, corticolous on F. americana, 24 v. 2014, R.T. McMullin 14178 (OAC), Albion Hills Conservation Area, second-growth trees along path to the splash pad park, corticolous on P. grandidentata, 24 v. 2014, R.T. McMullin 14084 (OAC). YORK REGION. Don River Watershed, Vaughan, Baker’s Woods, corner of Thornhill Woods Dr. and Highway 7, lichenicolous on exposed Thuja fence rail between parking lot and playground, 14 vi. 2015, R.T. McMullin 15626 (CANL).

Flavopunctelia soredica (Nyl) Hale
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, Meadow Trail, ~200 m west of Kettle Lake, corticolous on an exposed and mature Fraxinus sp. tree in a grassy field, 14 vi. 2016, R.T. McMullin 17949 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Blue Trail, mature mixed-wood second-growth forest, corticolous on a fallen deciduous tree, 24 v. 2014, R.T. McMullin 14101 (OAC), Red Trail, amongst exposed trees in a field, corticolous on F. americana, 24 v. 2014, R.T. McMullin 14159 (OAC).

Graphis scripta (L.) Ach.
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, corner of Dominion and Bruce Trails, north of a T. occidentalis and A. balsamea swamp, in a mixed-wood deciduous-dominated forest, corticolous on Acer sp., 14 vi. 2016, R.T. McMullin 17916 (CANL), Silver Creek Conservation Area, Bruce Trail, ~350 m southeast on Side Road 27, in a mature mixed-wood deciduous-dominated forest, corticolous on A. saccharum, 10 vi. 2016, R.T. McMullin 17991 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Blue Trail, along a stream running beside the Blue Trail in mature second-growth mixed-wood forest, corticolous on A. rubrum, 24 v. 2014, R.T. McMullin 14103 (OAC), corticolous on B. alleghaniensis, 24 v. 2014, R.T. McMullin 14104 (OAC). YORK REGION. Don River Watershed, Vaughan, natural area along the east side of Dufferin, ~800 m north of Major Mackenzie, in T. occidentalis and hardwood swamp, corticolous on B. alleghaniensis, 14 vi. 2015, R.T. McMullin 15614 (CANL).

Gyalecta jenensis (Batsch) Zahlbr.
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Belfountain Conservation Area, Gorge Loop Trail, east of the falls, ~100 m from the falls, in a mixed-wood deciduous-dominated forest along the river basin, saxicolous on calcareous rock, 13 vi. 2016, R.T. McMullin 17980 (CANL).

Hyperphyscia adglutinata (Flörke) H. Mayrh. & Poelt
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, at the eastern corner of the main parking lot, exposed mature trees adjacent to the main parking lot, corticolous on A. saccharum sp., 11 vi. 2016, R.T. McMullin 17865 (CANL), Humber River Watershed, Kortright Conservation Area, in A. saccharum dominated mixed-wood forest, corticolous on A. saccharum, 24 v. 2014, R.T. McMullin 14187 (OAC). YORK REGION. Don River Watershed, Vaughan, Nevada Park, trail off Hunterwood Chase, within mixed-wood forest, corticolous on Quercus sp., 13 vi. 2015, R.T. McMullin 15639 (CANL), Rouge River Watershed, Rouge Valley Conservation Centre, exposed trees on cultivated lawn, corticolous on E. angustifolia, 19 ix. 2013, R.T. McMullin 12564 (OAC).

Hypocenomyce scalaris (Ach.) M. Choisy

Hypogymnia physodes (L.) Nyl.
CANADA. ONTARIO. YORK REGION. Humber River Watershed, Toronto Region Conservation Authority, Swan Lake, in a bog with scattered trees and snags, corticolous on a snag, 24 v. 2014, R.T. McMullin 14152 (OAC).

†Illosporiopsis christiansenii (B.L. Brady & D. Hawksw.) D. Hawksw.
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, Meadow Trail, ~200 m north of Bruce Trail, in a mixed-wood deciduous-dominated forest, lichenicolous on Physcia sp. on a dead Q. rubra branch, 14 vi. 2016, R.T. McMullin 17940 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Red Trail, amongst exposed trees in a field, lichenicolous on Physcia millegrana, 24 v. 2014, R.T. McMullin 14166 (OAC).
*Julella fallaciosa* (Arnold) R.C. Harris


*Lecania croatica* (Zahlbr.) Kotlov


*Lecania naegelii* (Hepp) Diederich & V.D. Boom


*Lecanora allophana f. sorediata* Nyl.


*Lecanora carpinea* (L.) Vain.


*Lecanora hybocarpa* (Tuck.) Brodo


*Lecanora polytrepa* (Hoffm.) Rabenh.


*Lecanora pulicaris* (Pers.) Ach.


*Lecanora sambuci* (Pers.) Nyl.

**CANADA. ONTARIO. MUNICIPALITY OF TORONTO.** Rouge River Watershed, Toronto Zoo, Canadian Domain, in a mixed-wood forested area, exposed mature trees, corticolous on *P. tremuloides*, 19.ix.2013, *R.T. McMullin 12546* (OAC). PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, Meadow Trail, north of the Bruce Trail, in a mixed-

*Lecanora symmicta* (Ach.) Ach.


*Lecanora thyssanophora* Harris


*Lecidella stigmata* (Ach.) Hertel & Leuckert


*Lepraria finkii* (B. de Lesd.) R.C. Harris


*Lepraria neglecta* (Nyl.) Erichsen


*Melanelixia subargentifera* (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Albion Hills Conservation Area, clearing off of Terry Carr Memorial Trail, in an exposed area surrounded by mature mixed-wood forest, corticolous on an exposed *P. tremuloides*, 24.v.2014, *R.T. McMullin 14143* (OAC).

*Melanelixia subaurifera* (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, ~145 m downstream of the falls, saxicolous on exposed boulders in and along the river, 13.vi.2016, *R.T. McMullin 17882* (CANL), Meadow Trail, ~200 m north of Bruce Trail, in a mixed-wood deciduous-dominated forest, corticolous on a dead *R. typhina* branch, 14.vi.2016, *R.T. McMullin 17944* (CANL). YORK REGION. Don River Watershed, Vaughan, Baker’s Woods, corner of Thornhill Woods Dr. and Highway 7, lignicolous on exposed *Thuja* fence rail between main parking lot and playground, 14.vi.2015, *R.T. McMullin 15655* (CANL), Humber River Watershed, Toronto Region Conservation Authority, Swan Lake, in a bog with scattered trees and snags, corti-

*Micarea prasina* s. lat. Fr.


*Montanella sorediata* (Ach.) Goward & Ahti


†*Mycocalicium subtile* (Pers.) Szatala


*Myelochroa aurulenta* (Tuck.) Elias & Hale


*Myriolecis dispersa* (Pers.) Śliwa, Zhao Xin & Lumbsch


*Myriolecis hagenii* (Ach.) Ach.


*Myriolecis semipallida* H. Magn.


*Ochrolechia arborea* (Kreyer) Almb.


†*Ovicuculispora parmeliae* (Berk. & Curt.) Etayo


*Parmelia sulcata* Taylor

CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, along Credit River, ~145 m downstream of the falls, saxicolous on large exposed boulders in and along the river, 13.vi.2016, *R.T. McMullin 17884* (CANL), Dominion Trail, ~400 m north of the Bruce Trail, in a mixed-wood deciduous-dominated forest, corticolous on an exposed *Ulmus* sp., 13.vi.2016, *R.T. McMullin 17932* (CANL), Silver Creek Conservation Area, along 8th line, ~750 m southeast of Side Road 27, in a mature mixed-wood deciduous-dominated forest, corti-

**Pertusaria macounii** (Lamb) *Dicben*

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Silver Creek Conservation Area, Bruce Trail, ~350 m southeast on Side Road 27, in a mature mixed-wood deciduous-dominated forest, corticolous on *F. grandifolia*, 10.vi.2016, *R.T. McMullin 17997 (CANL)*.

†*Pseudocolicum curtisii* (Tuck.) *Tibell*


†*Phaeocalicium polyproaem* (Nyl.) *Tibell*


*Phaeophyscia adiastola* (Essl.) *Essl.*

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Belfountain Conservation Area, Gorge Loop Trail, in the basin along the river, in a mixed-wood deciduous-dominated forest, northwest side of the river, bryicolous, 13.vi.2016, *R.T. McMullin 17971 (CANL)*.

*Phaeophyscia kairamoi* (Vain.) *Moberg*


*Phaeophyscia orbicularis* (Neck.) *Moberg*


*Phaeophyscia pusillosides* (Zahlbr.) *Essl.*

Phaeophyscia rubropulchra (Degel.) Essl.

CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Belfountain Conservation Area, Gorge Loop Trail, west side of river, corticolous on a deciduous snag, 13.vi.2016, R.T. McMullin 17899 (CANL), Silver Creek Conservation Area, along 8th line, ~750 m southeast of Side Road 27, in a mature mixed-wood deciduous-dominated forest on calcareous rock, corticolous on *A. saccharum*, 10.vi.2016, R.T. McMullin 17986 (CANL), Humber River Watershed, Albion Hills Conservation Area, clearing off of Terry Carr Memorial Trail, in an exposed area surrounded by mature mixed-wood forest, corticolous on *Crataegus* sp., 24.v.2014, R.T. McMullin 14092 (OAC). YORK REGION. Don River Watershed, Vaughan, natural area along the east side of Dufferin, ~800 m north of Major Mackenzie, in a *T. occidentalis* and hardwood swamp, corticolous on a deciduous snag, 14.vi.2015, R.T. McMullin 15635 (CANL), Humber River Watershed, Toronto Region Conservation Authority, Swan Lake, mature mixed-wood forest beside bog, corticolous on *A. saccharum*, 24.v.2014, R.T. McMullin 14127 (OAC), Rouge River Watershed, Woodland Trail, mature mixed-wood forest with large and exposed deciduous trees, corticolous on a snag, 19.ix.2013, R.T. McMullin 12541 (OAC).

Physcia adscendens (Fr.) H. Olivier


Physcia aipolia (Ehrh. ex Humb.) Fürn.


Physcia dubia (Hoffm.) Lettau

CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, adjacent to the main parking lot, saxicolous on an exposed boulder, 11.vi.2016, R.T. McMullin 17853 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Red Trail, Lookout Point, saxicolous on exposed boulders, 24.v.2014, R.T. McMullin 14154 (OAC).

Physcia millegrana Degel.

CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Belfountain Conservation Area, exposed trees adjacent to the main parking lot, corticolous on *Fraxinus* sp., 13.vi.2016, R.T. McMullin 17963 (CANL), Forks of the Credit Provincial Park, eastern corner of the main parking lot, corticolous on exposed *Acer* sp. trees adjacent to the main parking lot, 11.vi.2016, R.T. McMullin 17859 (CANL), fork of Dominion and Bruce Trails, north of a *T. occidentalis* and *A. balsamea* swamp, in a mixed-wood deciduous-dominated forest, corticolous on *Malus* sp., 14.vi.2016, R.T. McMullin 17919 (CANL), Humber River Watershed,
Physcia stellaris (L.) Nyl.


Physcia chloantha (Ach.) Essl.


Physcia melancho (Hue) Essl.


Physconia enteroxantha (Nyl) Poelt S5


Placidium squamulosum (Ach.) Breuss


Placynthium nigrum (Huds.) Gray
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, along the Credit River, ~245 m south of the falls, in a large river valley, in a mixed-wood deciduous-dominated forest, saxicolous on shoreline rocks, 13.vi.2016, R.T. McMillin 17888 (CANL), Belfountain Conservation Area, Gorge Loop Trail, in the basin along the river, in a mixed-wood deciduous-dominated forest, northwest side of the river, saxicolous, 13.vi.2016, R.T. McMillin 17970 (CANL).

Porpidia crustulata (Ach.) Hertel & Knoph
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, Dominion Trail, ~400 m north of the Bruce Trail, in a mixed-wood deciduous-dominated forest, saxicolous, 13.vi.2016, R.T. McMillin 17935 (CANL).

Porpidia macrocarpa (DC.) Hertel & A.J. Schwab
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Belfountain Conservation Area, Gorge Loop Trail, in the river basin below the Bell Falls, in a mixed-wood deciduous-dominated forest, northwest side of the river, saxicolous, 13.vi.2016, R.T. McMillin 17974 (CANL).

Protoblastenia rupestris (Scop.) J. Steiner
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park River, along the Credit River, ~250 m south of the falls, in a mixed-wood deciduous-dominated forest, saxicolous on calcareous rock along the shore of the Credit River, 13.vi.2016, R.T. McMillin 17952 (CANL), Belfountain Conservation Area, Gorge Loop Trail, in the basin along the river, in a mixed-wood deciduous-dominated forest, northwest side of the river, saxicolous on calcareous rock, 13.vi.2016, R.T. McMillin 17975 (CANL). YORK REGION. Rouge River Watershed, Rouge National Urban Park, Orchard Trail, in a clearing in a second-growth mixed-wood forest adjacent to Rouge River, saxicolous on rock, 19.ix.2013, R.T. McMillin 12527 (OAC).

Prototarmelia hypotremella Herk, Spier & V. Wirth
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, south end of the park, fallen but living and mature T. occidentalis over the Credit River, saxicolous on a dead branch, host for Sphinctrina anglica, 14.vi.2016, R.T. McMillin 17904 (CANL).

Prototarmeliopsis muralis (Schreb.) Rabenh.
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, exposed area ~50 m west of the main parking lot, surrounded by exposed gravel, rocks, boulders, scattered shrubs and patches of grass, saxicolous, 11.vi.2016, R.T. McMillin 17869 (CANL), R.T. McMillin 17873 (CANL), Humber River Watershed, Albion Hills Conservation Area, near the Terry Carr Memorial Trail, saxicolous on exposed concrete, 24.v.2014, R.T. McMillin 14093 (OAC).

Punctelia rudecta (Ach.) Krog
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, eastern corner of the main parking lot, corticolous on exposed mature Acer sp. adjacent to the main parking lot, 11.vi.2016, R.T. McMillin 17862 (CANL), along the Credit River, ~145 m downstream of the falls, in the river basin, saxicolous on large exposed boulders in and along the river, 13.vi.2016, R.T. McMillin 17885 (CANL), south end of the park, corticolous on a mature, living, fallen T. occidentalis over the Credit River, 14.vi.2016, R.T. McMillin 17900 (CANL), Humber River Watershed, Albion Hills Conservation Area, clearing off of Terry Carr Memorial Trail, within an exposed area surrounded by mature mixed-wood forest, corticolous on Crataegus sp., 24.v.2014, R.T. McMillin 14081 (OAC). YORK REGION. Don River Watershed, Vaughan, Baker’s Woods, corner of Thornhill Woods Dr. and Highway 7, mature mixed-wood forest dominated by A. saccharum, corticolous on a deciduous snag, 14.vi.2015, R.T. McMillin 15629 (CANL), Rouge River Watershed, Rouge National Urban Park, Woodland Trail, in a mature mixed-wood forest with large and exposed deciduous trees, corticolous on Q. rubra, 19.ix.2013, R.T. McMillin 12533 (OAC).

Rhizocarpus reductum (Ach.) A. Massal.

Rinodina freyi H. Magn.
CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, eastern corner of the main parking lot, corticolous on mature exposed Q. rubra adjacent to the main parking lot, 11.vi.2016, R.T. McMillin 17950 (CANL).

Sarcogyne hypophaea (Nyl.) Arnold
Sarcogynae regularis Körb.

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, exposed area ~50 m west of the main parking lot, surrounded by gravel, rocks, and boulders, scattered shrubs and grasses, saxicolous, 11.vi.2016, R.T. Mc Mullin 17871 (CANL), Humber River Watershed, Albion Hills Conservation Area, near gatehouse at the entrance to the campground, saxicolous on an exposed calcareous boulder along a stream, 24.v.2014, R.T. Mc Mullin 14158 (OAC). YORK REGION. Don River Watershed, Vaughan, Nevada Park, trail off Hunterwood Chase, saxicolous on calcareous trailside man-made small talus slope, 14.vi.2015, R.T. Mc Mullin 15609 (CANL), Rouge River Watershed, Rouge National Urban Park, Glen Eagles Vista Trail, saxicolous on an exposed calcareous boulder that is partially shaded by adjacent forest, 19.ix.2013, R.T. Mc Mullin 12550 (OAC).

*Sarea resinae* (Fr.) Kuntze


Scoliciosporum chlorococcum (Stenh.) Vězda

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, fork of Dominion and Bruce Trails, north of *T. occidentalis* and *A. balsamea* swamp, in a mixed-wood deciduous-dominated forest, corticolous on a fallen canopy branch of a deciduous snag, 14.vi.2016, R.T. Mc Mullin 17914 (CANL). YORK REGION. Humber River Watershed, McMichael Canadian Art Collection grounds, near Wedding Hill, second-growth mixed-wood forest, corticolous on *P. strobus*, 24.v.2014, R.T. Mc Mullin 14175 (OAC).

Scoliciosporum umbrinum (Ach.) Arnold

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, eastern corner of the main parking lot, corticolous on a mature exposed *Q. rubra*, 11.vi.2016, R.T. Mc Mullin 17951 (CANL).

Scytinium lichenoides (L.) Otálor, P.M. Jorg. & Wedin

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Silver Creek Conservation Area, Bruce Trail, ~350 m southeast on Side Road 27, in a mature mixed-wood deciduous-dominated forest on calcareous rock, with bryophytes, saxicolous, 10.vi.2016, R.T. Mc Mullin 17990 (CANL).

†Sphinctrina anglica Nyl.

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, south end of the park, on a mature, living but fallen *T. occidentalis* over the Credit River, lichenicolous on *P. hypotremella* on a dead branch, 14.vi.2016, R.T. Mc Mullin 17903 (CANL).

†Stenocybe pullatula (Ach.) Stein

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, Dominion Trail, ~100 m north of Bruce Trail, along the Credit River, in the river valley, within a deciduous-dominated forest, along the shore of the Credit River, corticolous on *Alnus* sp. branches, 13.vi.2016, R.T. Mc Mullin 17985 (CANL).

Trapaclia placodioideis Coppins & P. James


Verrucaria calkinsiana Servit

**CANADA. ONTARIO. PEEL REGION.** Credit River Watershed, Forks of the Credit Provincial Park, along the Credit River, on a small side trail off the Bruce Trail, deciduous-dominated mixed-wood forest, saxicolous on calcareous rock, 14.vi.2016, R.T. Mc Mullin 17879 (CANL), Humber River Watershed, Vaughan, natural area along the east side of Dufferin, ~800 m north of Major Mackenzie, in *T. occidentalis* and hardwood swamp, corticolous on *F. grandifolia* and *Tilia* sp., 14.vi.2015, R.T. Mc Mullin 15644 (CANL).

Viridothelium vires (Tuck. ex E. Michener) Lücking, M.P. Nelsen & Aptroot

**CANADA. ONTARIO. YORK REGION.** Don River Watershed, Vaughan, natural area along the east side of Dufflerin, ~800 m north of Major Mackenzie, in *T. occidentalis* and hardwood swamp, corticolous on *F. grandifolia* and *Tilia* sp., 14.vi.2015, R.T. Mc Mullin 15644 (CANL).

Xanthomendoza fallax (Hepp ex Arnold) Sochting, Knörfelt & S. Kondr.

**CANADA. ONTARIO. MUNICIPALITY OF TORONTO.** Rouge River Watershed, Toronto Zoo, Canadian Domain, exposed mature trees within a mixed-wood forested area, corticolous on *Acer* sp., 19.ix.

Xanthomendoza hasseana (Räsänen) Sochting, Kärnefelt & S. Kondr.

CANADA. ONTARIO. YORK REGION. Don River Watershed, Vaughan, Nevada Park, trail off Hunterwood Chase, within mature mixed-wood forest, corticolous on a Populus sp. snag, 14.vi.2015, R.T. McMullin 15605 (CANL).

Xanthomendoza ulophyllodes (Räsänen) Sochting, Kärnefelt & S. Kondr.


Xanthoparmelia cumberlandia (Gyeln.) Hale


Xanthoparmelia plittii (Gyeln.) Hale


Xanthoria elegans (Link) Th. Fr.

CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, exposed area ~50 m west of the main parking lot, surrounded by exposed gravel, rocks, and boulders, scattered shrubs and grasses, saxicolous on non-calcareous rock, 11.vi.2016, R.T. McMullin 17872 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Red Trail, saxicolous on an exposed non-calcareous boulder, 24.v.2014, R.T. McMullin 14145 (OAC). YORK REGION. Don River Watershed, Vaughan, Baker’s Woods, corner of Thornhill Woods Dr. and Highway 7, saxicolous on exposed non-calcareous boulder shaded by adjacent mixed-wood forest, 14.vi.2015, R.T. McMullin 15604 (CANL).

Xanthoria parietina (L.) Th. Fr.


Xanthoria polycarpa (Hoffm.) Rieber

CANADA. ONTARIO. PEEL REGION. Credit River Watershed, Forks of the Credit Provincial Park, eastern corner of the main parking lot, corticolous on an exposed and mature Acer sp., 11.vi.2016, R.T. McMullin 17864 (CANL), Humber River Watershed, Glen Haffy Conservation Area, Blue Trail, within a mature mixed-wood second-growth forest, corticolous on a fallen deciduous tree, 24.v.2014, R.T. McMullin 14099 (OAC).