Lichen Survey of Henrietta Park 3 April 2019

Lichens found	Notes
Prunus	At approx. ST7537865276 Mainly on twigs and
	branches
Xanthoria parietina	
Punctelia jeckeri	
Flavoparmelia caperata	
Physcia tenella	
Parmelia sulcata	
Lecidella elaeochroma	
Melanelixia subaurifera	
Candelaria concolor	
Candelariella reflexa	
Lecanora chlarotera	
Arthonia radiata	
Hypotrachyna revoluta	
Melanohalea laciniatula	
Catillaria nigroclavata	
Punctelia subrudecta	
Parmotrema perlatum	
Pyrrhospora quernea	
Hypotrachyna	
afrorevoluta	
Flavoparmelia soredians	
Ramalina farinacea	
Fuscidea lightfootii	
Amandinea punctata	
Hyperphyscia adglutinata	
Hypogymnia tubulosa	
Phaeographis smithii	Nice to find this in a city
Diploicia canescens	
Physcia adscendens	
Opegrapha vulgata	
Evernia prunastri	
Sycamores	
trunks	
Opegrapha vermicellifera	
Pyrrhospora quernea	
Hyperphyscia adglutinata	
Physconia grisea	
Opegrapha rufescens	
Porina aenea	
Strigula taylorii	
Lecanora chlarotera	
branches	

Xanthoria parietina	
Ramalina fastigiata	
Parmelia sulcata	
Melanohalea laciniatula	
Punctelia subrudecta	
Physcia tenella	
Physcia adscendens	
Horse Chestnuts	I could not reach the branches that has the most lichens
	on
Candelaria concolor	
Xanthoria parietina	
Physcia adscendens	
Physconia grisea	
Porina aenea	
Punctelia borreri	
Hyperphyscia adglutinata	
Melanohalea elegantula	
Lecanora compallens	
Lecanora expallens	
Ash	Single ash tree – trunk only
Melanelixia glabratula	
Xanthoria parietina	
Physconia grisea	
Punctelia jeckeri	
Flavoparmelia caperata	
Candelaria concolor	
Ramalina fastigiata	
Melanohalea laciniatula	
Lecanora chlarotera	
Lecidella elaeochroma	
Other records	
Lecanora carpinea	One thallus
Opegrapha niveoatra	
Lecania naegelii	
Caloplaca cerinella	One thallus
Opegrapha vulgata	
Opegrapha varia	
Caloplaca ulcerosa	Tiny bit
Strigula taylorii	
Phaeophyscia orbicularis	

Comment

There are no rare species and few species of particular note. But as a list for the city centre location and small size of the site this is quite a species rich Park with 47 species. I think I was struck by the presence of pairs of species (which may be closely related but sometimes not) and can cause confusion for the beginner. This site could be good for demonstrating these lichens for learning identification. The one *Prunus* tree (location approximately ST7537865276) was particularly rich had over half (61%) of the species recorded for the whole park. All I have listed are the species I recorded and there will be others that I missed or did not see in my sampling. Further survey will no doubt add to those species I did find.

The list is characteristic of sites which are quite heavily polluted with nitrogen. In cities this mainly comes from traffic (as NO_x) whilst in the countryside it mainly comes from farms (as ammonia).

In terms of management, there is nothing specific I can recommend. The Prunus tree will have its own life and once it ceases to be of value as a park tree, its lichen flora will very likely be of less value than it is now. One the crown of the tree dies, the lichens follow suit in a matter of months. The other trees (trunks especially) need light and lack of disturbance generally. The old horse chestnuts have very few lichens on their trunks probably because of the lasting effect of past pollution with smoke and sulphur dioxide.

Species	Similar less common species	comment
Flavoparmelia caperata	F. soredians	Easily separated by chemical spot test with 10% KOH
Porina aenea	Strigula taylorii	Microscopically quite different
Opegrapha vulgata	O. niveoatra	Microscopical examination of conidia (shorter in <i>O.niveoatra</i>)
Punctelia subrudecta and P. jeckeri	P. borreri	Giz. P. borreri black underneath
Amandinea punctata	Catillaria nigroclavata	Microscopically quite different
Malanohalea laciniatula and Melanelixia glabratula	Melanohalea elegantula	Isidia different – branched in <i>M.</i> elegantula
Lecanora expallens	Lecanora compallens	Chemical test. <i>L. compallens</i> has a slightly bluish tinge compared with <i>L. expallens</i> green. Poss also UV test after sport test with 10% KOH

Alphabetical list of species

Flavoparmelia caperata		
Flavoparmelia soredians		
Fuscidea lightfootii		
Hyperphyscia adglutinata		
Hypogymnia tubulosa		
Hypotrachyna afrorevoluta		
Hypotrachyna revoluta		
Lecania naegelii		
Lecanora carpinea		
Lecanora chlarotera		
Lecanora compallens		
Lecanora expallens		
Lecidella elaeochroma		
Melanelixia glabratula		
Melanelixia subaurifera		
Melanohalea elegantula		
Melanohalea laciniatula		
Opegrapha niveoatra		
Opegrapha rufescens		
Opegrapha varia		
Opegrapha vermicellifera		
Opegrapha vulgata		
Parmelia sulcata		
Parmotrema perlatum		
Phaeographis smithii		
Phaeophyscia orbicularis		
Physcia adscendens		
Physcia tenella		
Physconia grisea		
Porina aenea		
Punctelia borreri		
Punctelia jeckeri		
Punctelia subrudecta		
Pyrrhospora quernea		
Ramalina farinacea		
Ramalina fastigiata		
Strigula taylorii		
Xanthoria parietina		

For more information on these species in Somerset see P A Wolseley, B J Coppins and A M Coppins (2018) Somerset Lichens and Lichenicolous Fungi. *Proceedings of the Somerset Archaeological and Natural History Society.* **161**, 235-311.

David Hill 4 April 2019