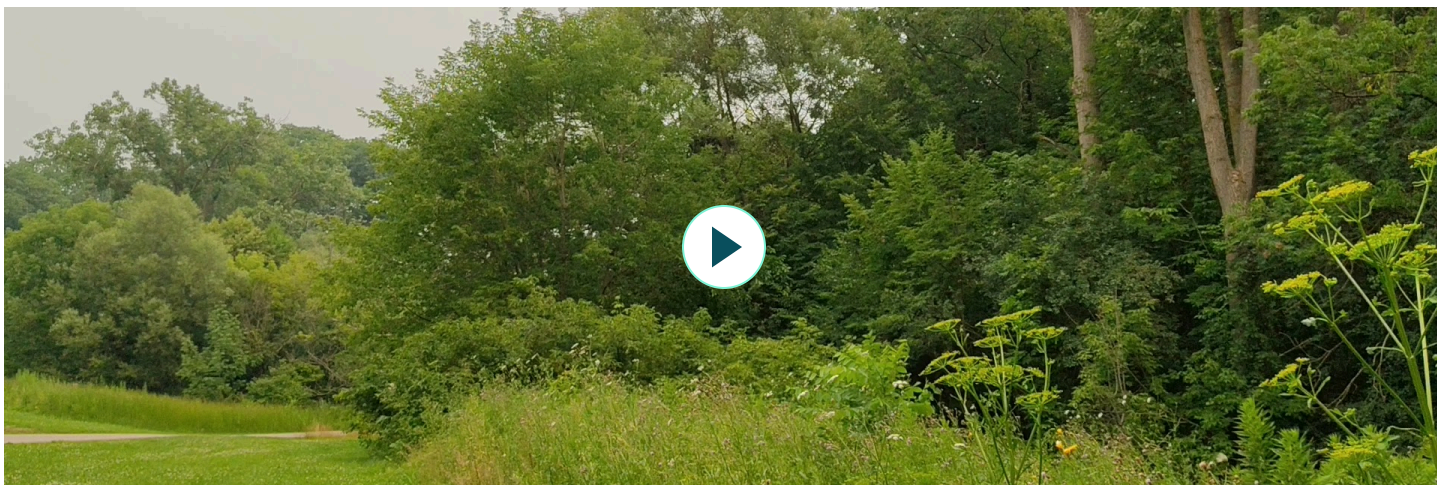




South Humber Park

Trail & Asset Inventory

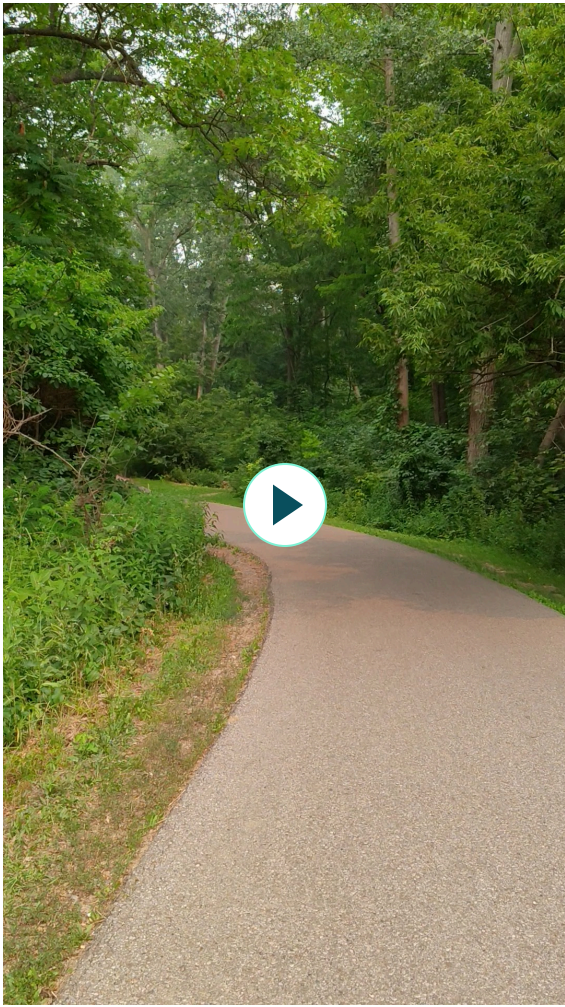
Yuliia Chepurna

July 16, 2026

Introduction

South Humber Park is a City of Toronto green space in Etobicoke, situated along the Humber River. It contains a section of the Humber River Recreational Trail, which runs toward Lake Ontario and connects to the Waterfront Recreational Trail, and it adjoins the Humber Marshes, where urban wildlife is regularly present.

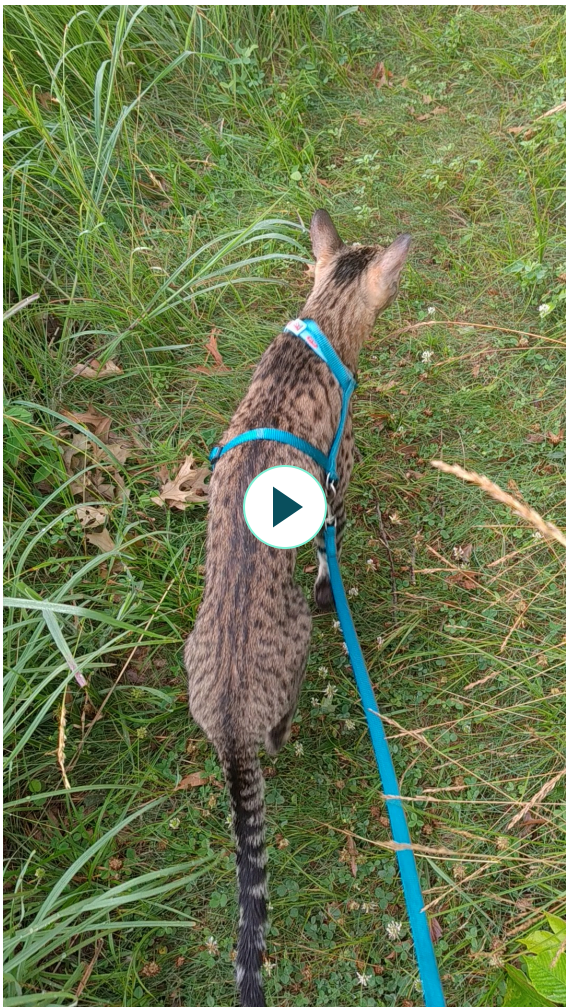


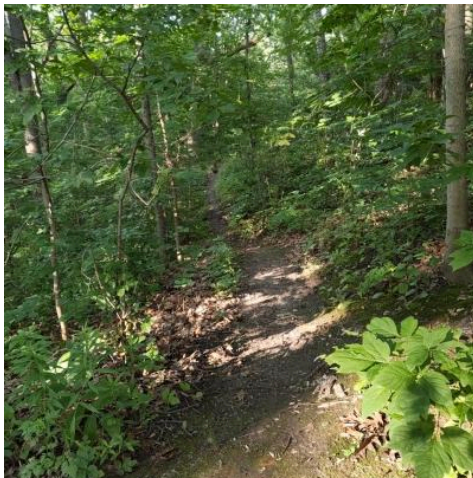


Despite its small size, the park supports varied and heavy use. Its paved trails carry through-traffic of cyclists and joggers on the longer regional route.

Official trail

Its wide dirt trails are used by trail runners, and its network of narrow informal paths is popular with dog walkers.





Trails

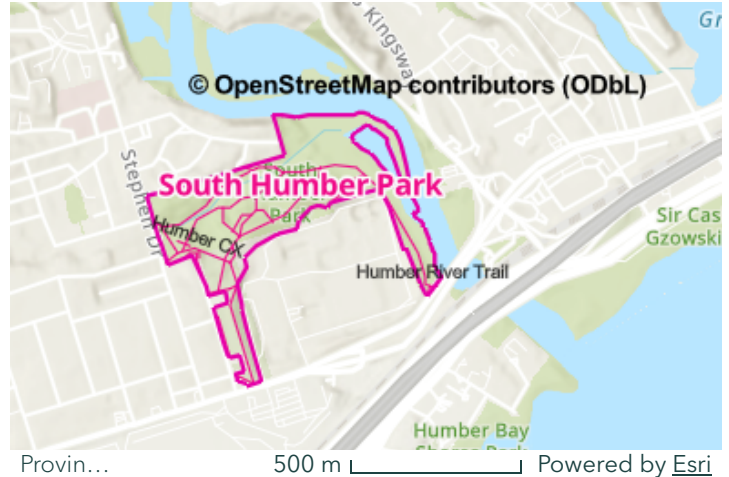
The park also provides sheltered access to the waterfront in poor weather, and its proximity to the shopping plaza at the Humber Loop on The Queensway means it is used as a pedestrian shortcut by local residents.

Objectives



1. Field-verify the trail network in the park.
2. Inventory the park's assets and the issues on its trails.
3. Assess amenity coverage — waste bins and washrooms — against the trail network.

Study Area



City of Toronto Green Spaces (left) vs OpenStreetMap (right).

The City classifies the area as **South Humber Park (17.66 ha)** plus two **City Wide Open Space parcels (3.65 ha)** and records a **single route** through the park within its pedestrian network dataset.

OpenStreetMap maps the area as **one park (21.2 ha)** with a **full trail network**.

Neither source records the informal trails documented in the field.



The OpenStreetMap boundary was adopted because it matches the park as people actually use it — trails run straight across the City's parcel lines, and nobody walking through notices a boundary. **The OSM trail network was used** as the baseline for field verification because the City doesn't publish a trail dataset for the park at all.

Data and Methods



OSM Layers

I created **Trail_Segments_Split**, a polyline feature layer, to field-verify the trail network. The OSM trails were clipped to the park boundary, split at intersections, and each segment's length was calculated. A GroundStatus field was added, defaulting to "Not_Checked". 62 segments to start with.

I also created two point feature classes: **Park_Assets** for the amenities and

Trail_Issues for the problems. Both sit along the trail network. Keeping them separate lets me test later whether issues cluster near amenities.

The geodatabase schema is in the Appendix.

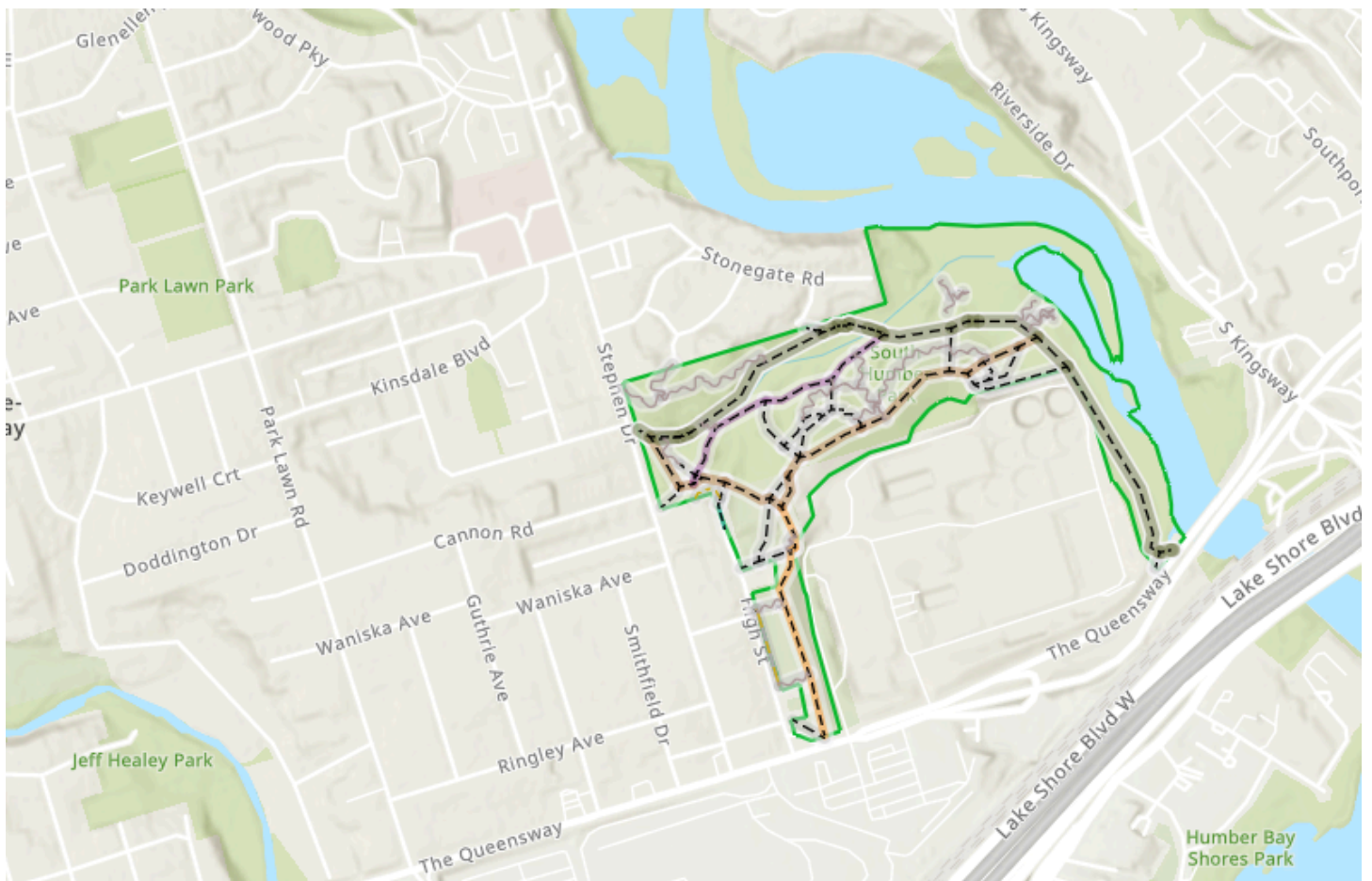
All three feature classes were published to ArcGIS Online as feature layers with photo attachments and collected in **Field Maps**.

The image displays three side-by-side screenshots of a mobile application interface, each showing a different data entry form. The forms are titled 'Trail Segments Split', 'Trail Issues', and 'Park Assets'. Each form includes a map at the top, a title bar, a location field, an 'Add point' button, and various input fields for data collection. The 'Trail Segments Split' form has fields for Trail Name, Surface, Condition, Ground Status, Not_Checked, Accessible, Provenance, Date Observed, and Notes. The 'Trail Issues' form has fields for Issue Type, Severity, Date Observed, and Notes. The 'Park Assets' form has fields for Asset Type, Condition, Date Observed, and Notes. Each form also includes a 'Media' section with 'Take photo' and 'Attach' buttons.

Field Maps forms

Field verification results

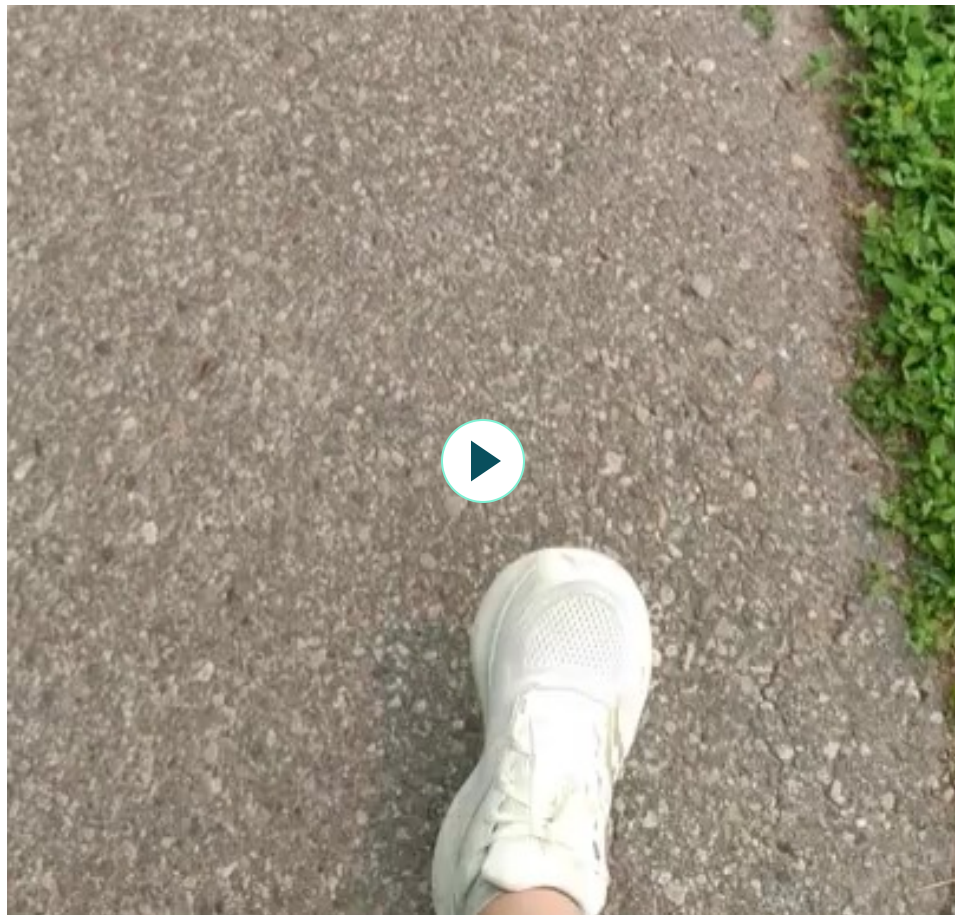
Every OSM segment was walked and assigned a GroundStatus. Trails found on the ground but absent from OSM were captured by GPS and added as New_Unmapped. Amenities and trail issues were captured on the same walk, into Park_Assets and Trail_Issues.



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200 m  Powered by [Esri](#)

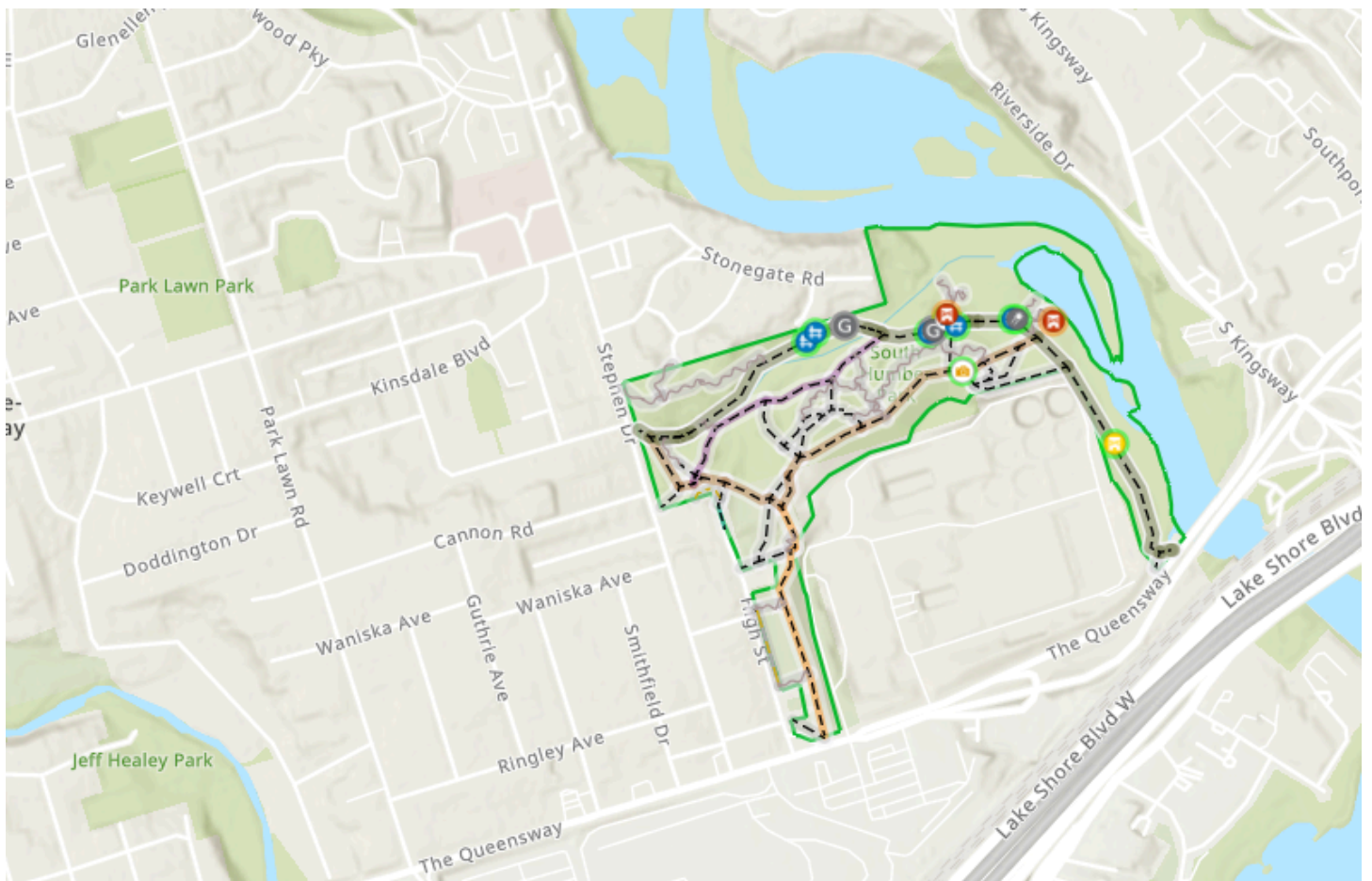
Fieldwork began with 62 OSM segments (4.2 km) in length and ended with 81 segments (5.42 km).



About a quarter of the trails I verified are missing from OpenStreetMap.

Totals:

- field-captured 19 segments (+1.22 km)
- 60 OSM segments confirmed
- 1 - Not Found
- 1 is not Accessible, private road



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Assets

The same walk that verified the trails recorded **14 assets**:

- **Good condition:** 5 benches, monument, pavilion, fire place, safety - Life ring
- **Fair condition:** all waste bins (3 points)
- **Poor condition:** 2 structures



Pavilion



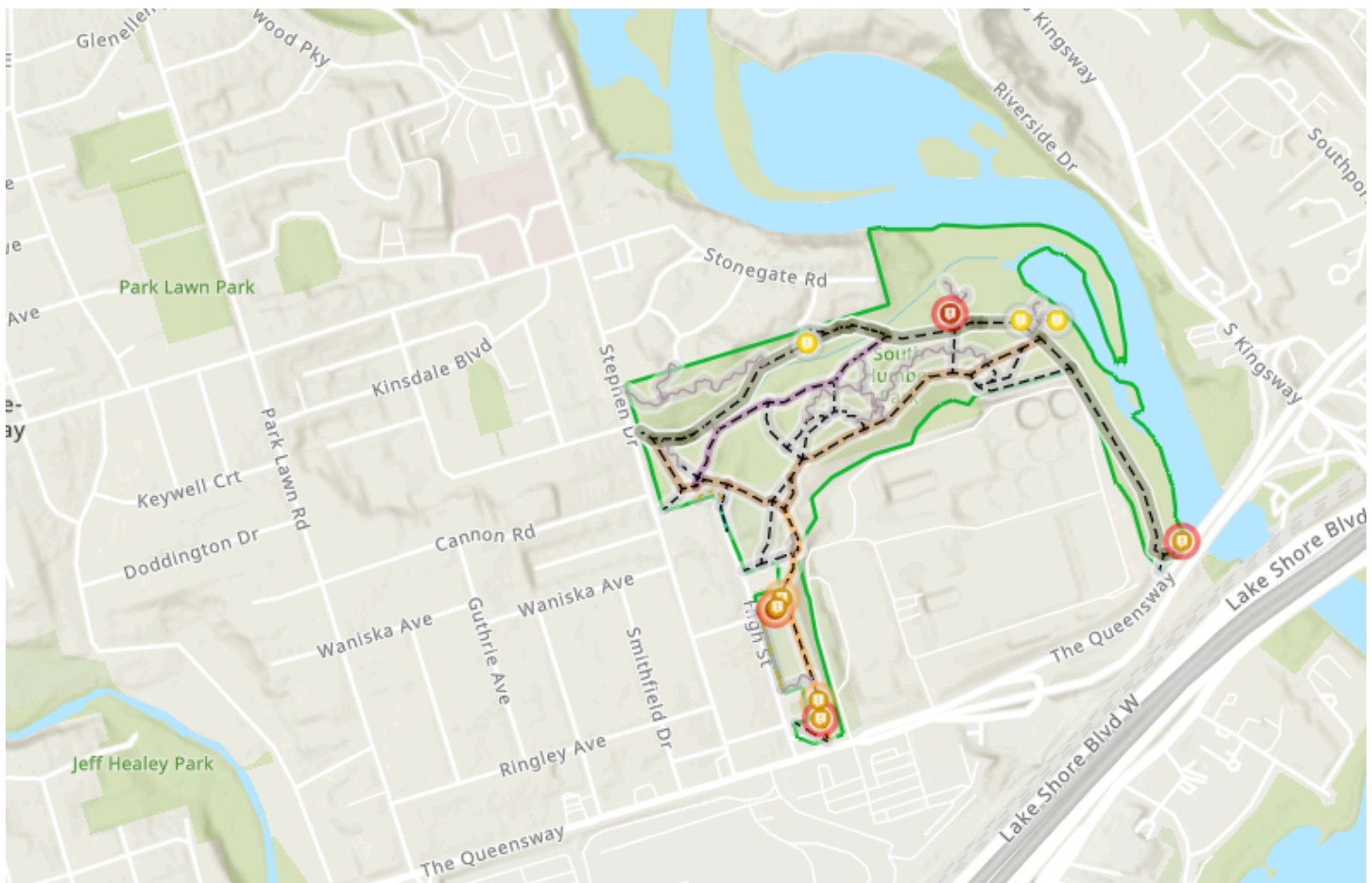
Monument



Structure 1



Structure 2



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Issues

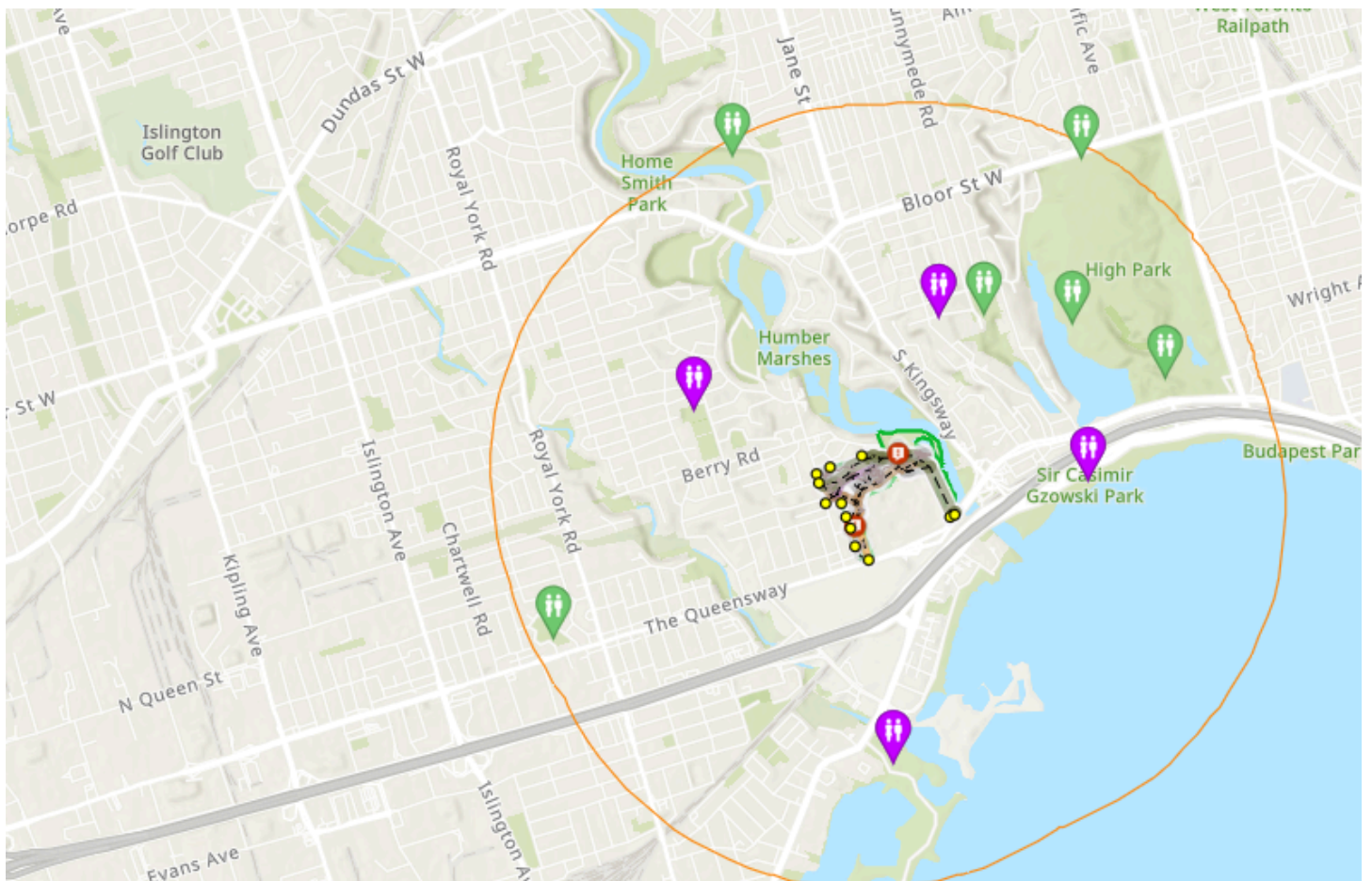
Overall the park is in good condition, although **some litter was observed in three places along the trails**. Ten issues were recorded in total.

There are **five gathering-drinking sites**: three at Medium severity, and two at High severity (littered with cans and cigarette butts). Four of these sites are on the trail to The Queensway and the shopping plaza, the other is under the bridge near the lake.



Two locations are used as informal washrooms. The park has no washroom of its own, so I investigated the proximity of the nearest available washrooms.





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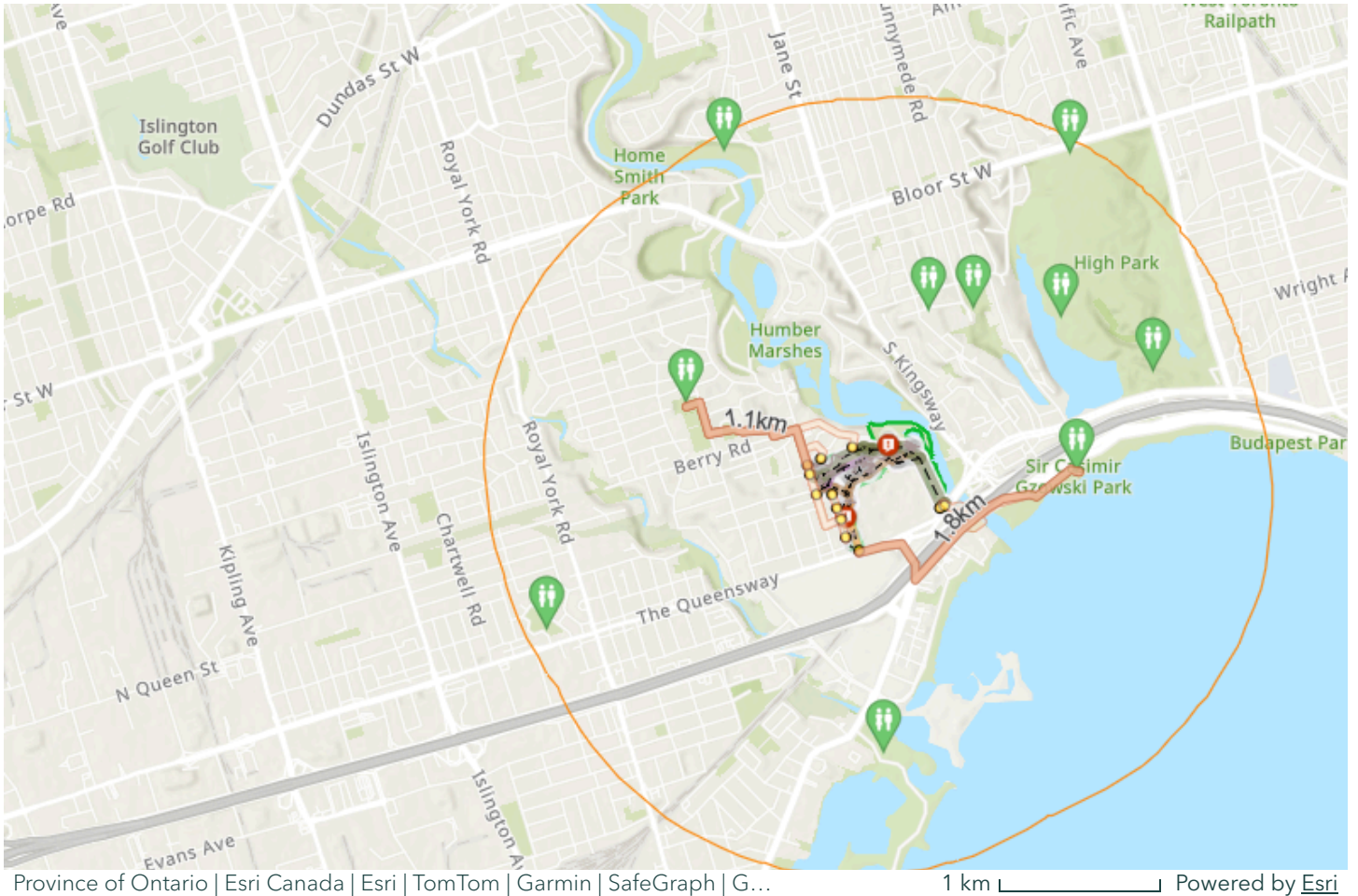
1 km Powered by Esri

Washroom Proximity

From the City of Toronto Washroom Facilities dataset, I selected the washrooms within a 3 km **buffer** of the park (**Select By Location**).

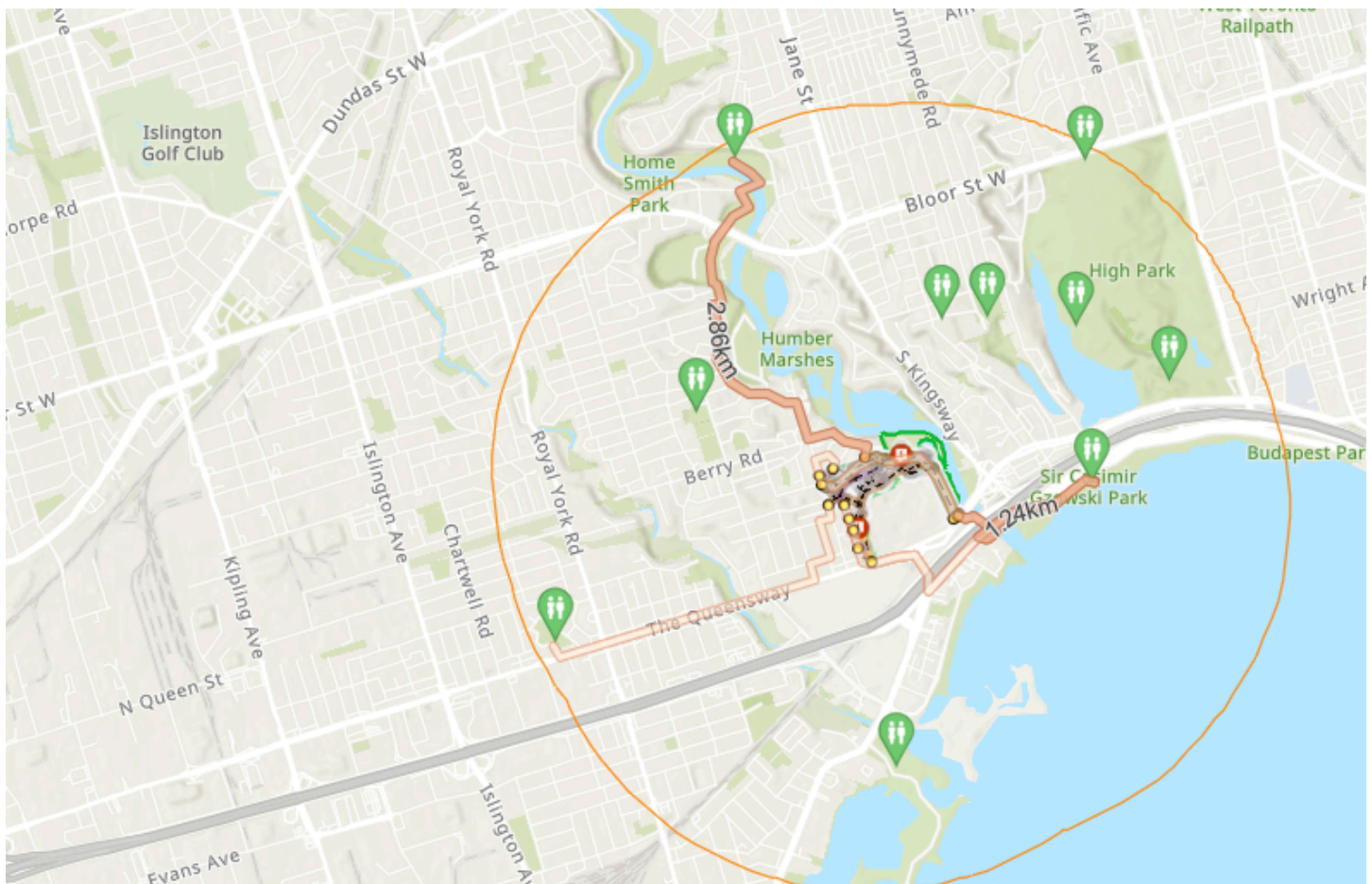
I generated **points along the trail lines**, then ran **Near Table** and **Summary Statistics**. The strait-line distance ranges from 0.8 km to 1.3 km. This method measures strait-line distance only, which is a real limitation here: the nearest washroom by strait line sits across the Humber River, and there is no pedestrian crossing nearby, so the actual walking distance is longer.

To measure the walking distance I created a feature class of the park's official and informal exits (13 points) and ran **The Closest Facility** tool on Network Analysis dataset.



By network route, the closest washroom is 1.1 km from the park and the farthest is 1.8 km. The other exits fall in between.

This does not include the walk along the park trails. The section of Humber River Recreational Trail within South Humber park is 1.2 km.



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1 km Powered by Esri

The situation differs by season. Fewer washrooms are open in autumn and spring, because the City closes several seasonal facilities, such as outdoor pools, along with their washrooms. I re-ran the Closest Facility tool for autumn conditions; routes range from 1.24 to 2.86 km.

At a walking pace of about 5 km/h, the nearest washroom is roughly a 13-minute walk one way, and the farthest autumn route is about 34 minutes one way. This makes informal use predictable rather than exceptional, and supports installing a portable washroom near the pavilion.

Next steps

Contribute the verified trail geometry back to OpenStreetMap

Submit a request to the City about possibility of installing a portable washroom.

Appendix

Data sources

OpenStreetMap — park boundary, trail network baseline, waste bin POIs. © OpenStreetMap contributors, available under the Open Database License (ODbL).



City of Toronto Open Data — Green Spaces (park boundary comparison), Pedestrian Network (official route through the park), Washroom Facilities (nearest washroom analysis). Contains information licensed under the Open Government Licence – Toronto.

Field-captured — trail verification, informal trail geometry, assets and issues. Collected by Y. Chepurna, July 2026, via ArcGIS Field Maps.

List of Domains

- **dom_TrailType:** Official-recreational, Service-access, Informal-social
- **dom_Surface:** Paved, Gravel, Dirt, Boardwalk, Grass, Unknown
- **dom_Condition:** Good, Fair, Poor
- **dom_GroundStatus:** Confirmed, Not_Found, New_Unmapped, Not_Checked, Not_Accessible
- **dom_Accessible:** Yes, No, Partial
- **dom_Provenance:** OSM-only, Field-captured
- **dom_AssetType:** Waste bin – Three-stream, Waste bin – Garbage only, Waste bin – Recycling only, Waste bin – Organics only, Waste bin – Single general, Bench, Light, Sign, Pavilion, Monument, Structure, Safety – Life ring
- **dom_IssueType:** Garbage-dumping, Gathering-drinking, Vandalism, Hazard, Erosion, Litter, Informal washroom use, Other

- **dom_Severity:** Low, Medium, High

Geodatabase schema

Fields: Trail_Segments_Split - South_Humber_Park_Trails_Inventory - ArcGIS Pro

Fields: Trail_Segments_Split

Current Layer: Trail_Segments_Split

Visible	Read Only	Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Domain	Default	Length
☒	☒	OBJECTID	OBJECTID	Object ID	☐	☐	Numeric			
☒	☐	Shape	SHAPE	Geometry	☒	☐				
☒	☐	FID_Trail_Segments	FID_Trail_Segments	Long	☒	☐	Numeric			
☒	☐	SegmentID	SegmentID	Text	☒	☐				20
☒	☐	TrailName	TrailName	Text	☒	☐				100
☒	☐	TrailType	TrailType	Text	☒	☐		dom_TrailType		30
☒	☐	Surface	Surface	Text	☒	☐		dom_Surface		20
☒	☐	Condition	Condition	Text	☒	☐		dom_Condition		10
☒	☐	GroundStatus	GroundStatus	Text	☒	☐		dom_GroundStatus		15
☒	☐	Accessible	Accessible	Text	☒	☐		dom_Accessible		10
☒	☐	Provenance	Provenance	Text	☒	☐		dom_Provenance		20
☒	☐	Issues	Issues	Text	☒	☐				255
☒	☐	ObsDate	ObsDate	Date	☒	☐				
☒	☐	Length_m	Length_m	Double	☒	☐	Numeric			
☒	☐	Notes	Notes	Text	☒	☐				255
☒	☒	Shape_Length	Shape_Length	Double	☒	☐	Numeric			
☒	☒	GlobalID	GlobalID	Global ID	☐	☐				

Click here to add a new field.

Fields: Park Assets - South_Humber_Park_Trails_Inventory - ArcGIS Pro

Fields: Park Assets

Current Layer: Park Assets

Visible	Read Only	Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Domain	Default	Length
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☒	☐	AssetID	AssetID	Text	☒	☐				20
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☒	☐	Condition	Condition	Text	☒	☐		dom_Condition		10
☒	☐	ObsDate	ObsDate	Date	☒	☐				
☒	☐	Notes	Notes	Text	☒	☐				255
☒	☒	GlobalID	GlobalID	Global ID	☐	☐				

Click here to add a new field.

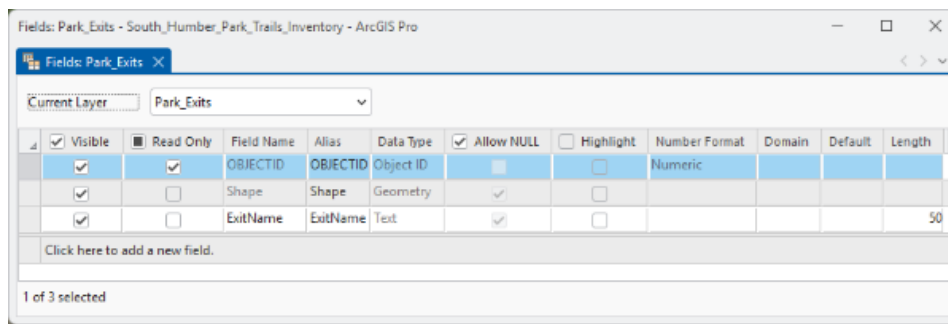
Fields: Trail Issues - South_Humber_Park_Trails_Inventory - ArcGIS Pro

Fields: Trail Issues

Current Layer: Trail Issues

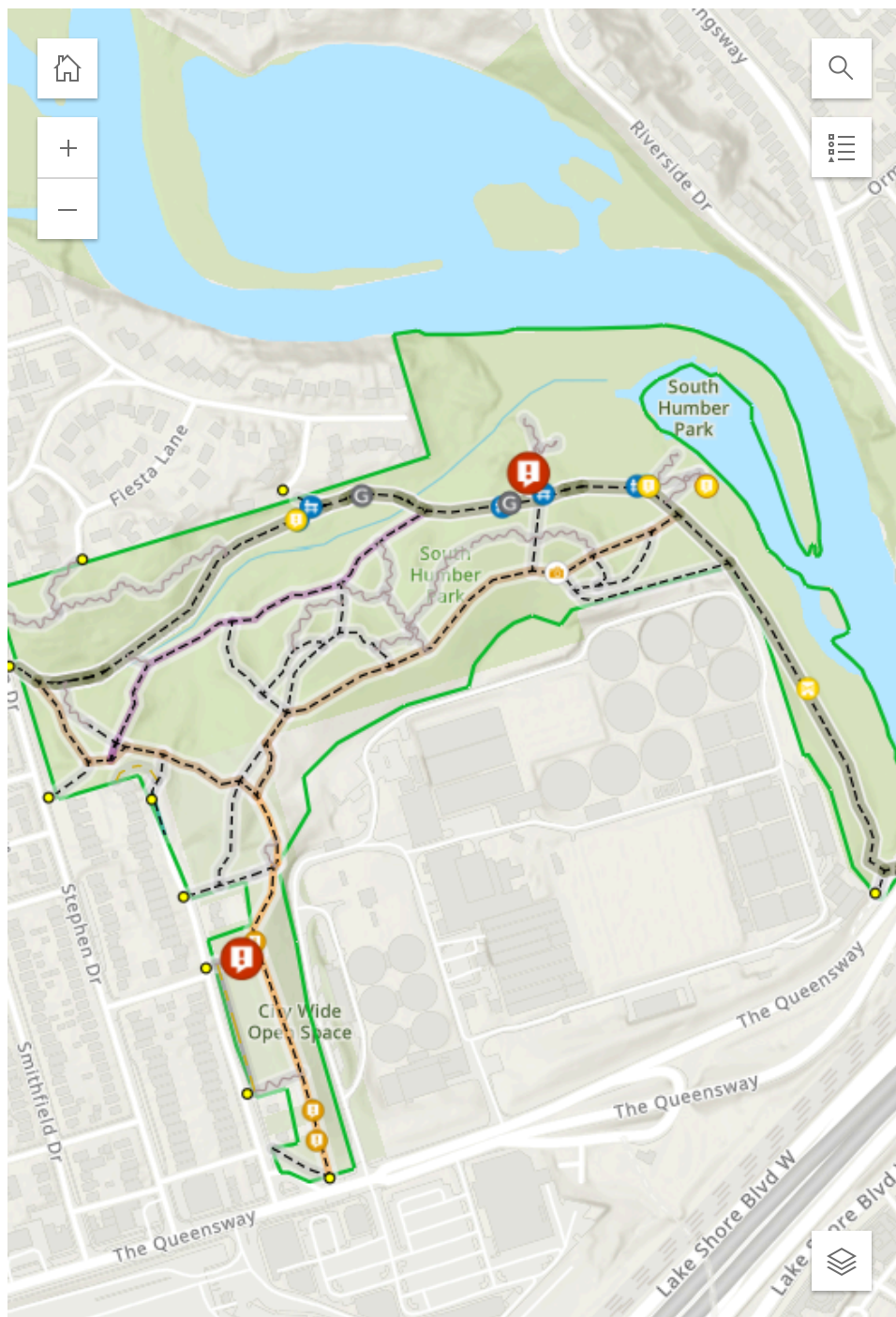
Visible	Read Only	Field Name	Alias	Data Type	Allow NULL	Highlight	Number Format	Domain	Default	Length
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☒	☐	Shape	SHAPE	Geometry	☒	☐				
☒	☐	IssueID	IssueID	Text	☒	☐				20
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☒	☐	Severity	Severity	Text	☒	☐		dom_Severity		10
☒	☐	ObsDate	ObsDate	Date	☒	☐				
☒	☐	Notes	Notes	Text	☒	☐				255
☒	☒	GlobalID	GlobalID	Global ID	☐	☐				

Click here to add a new field.



Results

Link to Instant App map: [South Humber Park Trails, Amenities, Issues](#)



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South Humber Park Trails, Amenities, Issues

Reports and tables

South Humber Park — Trail Network Verification

Field verification results by GroundStatus, July 2026

GroundStatus	Segments	Length (m)	Share of network
Confirmed	60	4,029	74.3%
New_Unmapped	19	1,221	22.5%
Not_Found	1	122	2.3%
Not_Accessible	1	50	0.9%
Total	81	5,422	100.0%

Disagreement with OpenStreetMap (by length)

Omission (New_Unmapped — on the ground, not in OSM)	1,343	24.8%
Commission (Not_Found — in OSM, not on the ground)	1,221	22.5%
	122	2.3%

By Provenance

OSM-only	62	4,201
Field-captured	19	1,221

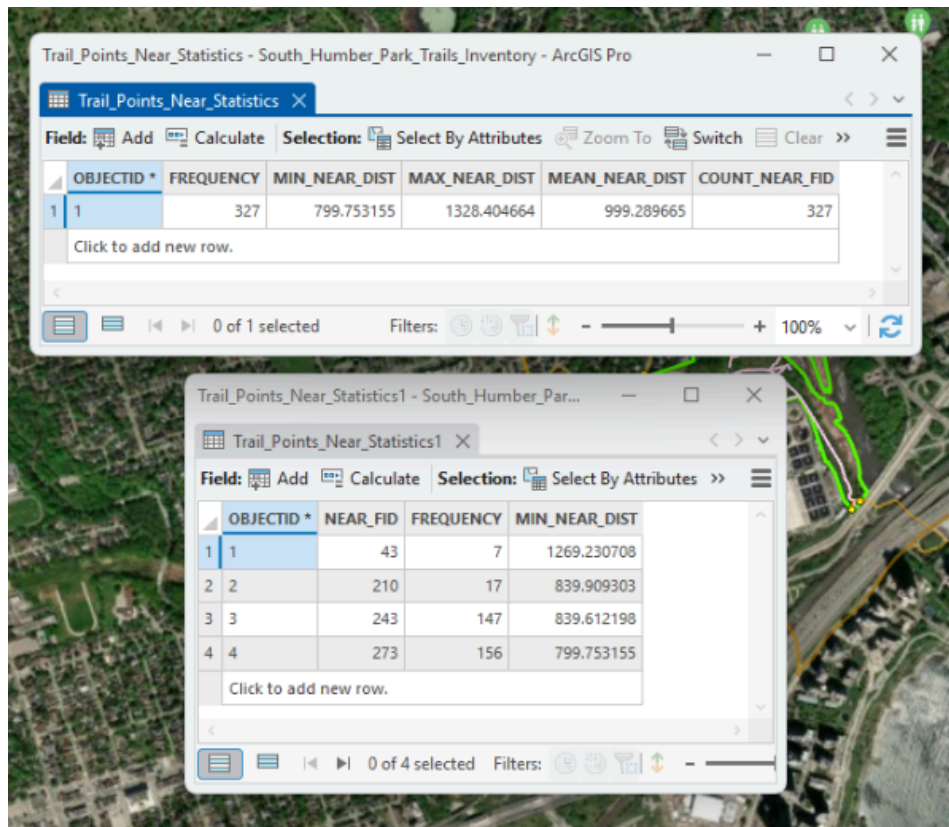
Notes

Blue cells are field-collected inputs (segment counts and lengths from Trail_Segments in ArcGIS Pro). All other cells are formulas.

Lengths are Shape_Length recalculated via Calculate Geometry, NAD 1983 UTM Zone 17N, rounded to the nearest metre.

Not_Found = SHPT-003, mapped in OSM but absent on the ground. Not_Accessible = SHPT-017, visible but crossing private access.

Trail baseline: © OpenStreetMap contributors (ODbL). Field data collected by Y. Chepurina, July 2026, via ArcGIS Field Maps.



Thank you for your attention!



Trail baseline, park
boundary, waste-bin
locations

© OpenStreetMap
contributors (ODbL)

Park boundary comparison,
pedestrian network,
washroom facilities

City of Toronto Open Data
(Open Government Licence –
Toronto)