**Appendix 7**. Raw model results for a Generalized Additive Model comparing the difference between city polygons and random polygons.

**Table A1**. Raw model results.

Family: gaussian

Link function: identity

Formula:

total\_richness ~ log(area.m/1000) + Analysis + s(total\_lists)

Parametric coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 81.0531 5.1860 15.629 < 2e-16 \*\*\*

log(area.m/1000) 7.9652 0.5085 15.665 < 2e-16 \*\*\*

AnalysisRandom -9.5423 1.4167 -6.735 1.97e-11 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Approximate significance of smooth terms:

edf Ref.df F p-value

s(total\_lists) 8.976 9 344.5 <2e-16 \*\*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

R-sq.(adj) = 0.693 Deviance explained = 69.4%

GCV = 1148.3 Scale est. = 1143.5 n = 2865