

Lower Thames Crossing

6.3 Environmental Statement

Appendices

Appendix 13.2 – Ward Sensitivities

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Appendix 13.2 – Ward Sensitivities

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1 Introduction

- 1.1.1 The sensitivity of communities and populations has been assessed in line with Design Manual for Roads and Bridges LA 112 (Highways England, 2020). The following publicly available data has been used in order to determine the sensitivity of wards located within 1km of the Project:
- a. Percentage of community with increased susceptibility to health issues (people aged 60+) (Mid-Year Population Estimates, 2020)
 - b. Percentage of children (aged <16 years) (Mid-Year Population Estimates, 2020)
 - c. Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD) standardised admission ratio (2016/17 to 2020/21) (Office for Health Improvement and Disparities, Fingertips Public Health Data, accessed 2022). Note the standardised admission ratio is a summary of admission rates relative to the national pattern of admissions and taking into account differences in population characteristics (for example age, sex, socio-economic deprivation).
 - d. Deaths from respiratory diseases (2016-2020) (Office for Health Improvement and Disparities, Fingertips Public Health Data, accessed 2022)
 - e. Percentage of people who reported having a limited long-term illness or disability (2011 Census)
 - f. General health – percentage of residents who report ‘bad health’ or ‘very bad health’ (2011 Census)
 - g. Life expectancy – male (2016-2020) (Office for Health Improvement and Disparities, Fingertips Public Health Data, accessed 2022)
 - h. Life expectancy – female (2016-2020) (Office for Health Improvement and Disparities, Fingertips Public Health Data, accessed 2022)
 - i. Income deprivation (English Deprivation Indices, 2019)
- 1.1.2 For each ward, data has been compared against that for England as a whole for each of the eight datasets listed above. For each value, data has been categorised according to whether is ‘better than England’ (coloured green), ‘similar to England’ (coloured orange) or ‘worse than England’ (coloured red). Data at local authority level has been included in the table for comparative purposes.
- 1.1.3 The sensitivity of individual wards has been identified as high, medium or low based on professional judgement as follows:

- a. High sensitivity – wards where more than two datasets are categorised as being ‘worse than England’
- b. Medium sensitivity – wards where up to two datasets are categorised as being ‘worse than England’
- c. Low sensitivity – wards where all datasets are either ‘similar to England’ or ‘better than England’.

1.1.4 Table 1.1 and Table 1.2 show the sensitivity of individual wards based on this assessment.

Table 1.1 Ward sensitivities – south of the River Thames

Ward	Percentage of community with increased susceptibility to health issues (older people - 60+) ⁽¹⁾	Percentage of children (aged <16) ⁽¹⁾	Income Deprivation ⁽²⁾	Percentage of people who reported having a limited long-term illness or disability which limits them ‘ a lot’ or ‘ a little’ ⁽³⁾	General health - % of residents who report ‘ Bad health and Very Bad Health’ ⁽³⁾	Life expectancy – Male ⁽⁴⁾	Life expectancy – Female ⁽⁴⁾	Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD), Standardised Admission Ratio (SAR) ⁽⁵⁾	Deaths from respiratory diseases ⁽⁶⁾	Ward Sensitivity (low, medium, high)
England	23.9	20.3	12.9	17.6	5.4	79.5	83.2	100	100	N/A
Gravesham	22.7	22.6	12.2	17	5.1	79.4	83.4	90.6	101.8	N/A
Riverside	11.9	26.7	18.8	14.8	5	75.0	82.4	165.6	166.2	HIGH
Riverview	30.2	19.4	4.4	14.1	3.7	84.5	85.5	32.5	65.4	MEDIUM
Higham	33.1	17.1	7.1	18.4	4.6	80.6	85.3	43.4	99.7	MEDIUM
Chalk	35.1	17.1	4.4	18.4	4.7	82.7	86.1	43.6	84.9	MEDIUM
Westcourt	19.9	27.4	19.6	19.5	6.4	77.8	80.9	159.5	114.9	HIGH
Singlewell	18.7	25.8	18	18.8	6	76.1	83.9	119.7	111.6	HIGH
Woodlands	23.1	21.8	7.6	14.9	3.8	81.6	82.8	56.0	84.2	MEDIUM
Shorne, Cobham and Luddesdown	34.6	18.4	3.9	15.9	4.4	83.3	88.7	54.6	40.9	MEDIUM

Ward	Percentage of community with increased susceptibility to health issues (older people - 60+) ⁽¹⁾	Percentage of children (aged <16) ⁽¹⁾	Income Deprivation ⁽²⁾	Percentage of people who reported having a limited long-term illness or disability which limits them ‘ a lot’ or ‘ a little’ ⁽³⁾	General health - % of residents who report ‘ Bad health and Very Bad Health’ ⁽³⁾	Life expectancy – Male ⁽⁴⁾	Life expectancy – Female ⁽⁴⁾	Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD), Standardised Admission Ratio (SAR) ⁽⁵⁾	Deaths from respiratory diseases ⁽⁶⁾	Ward Sensitivity (low, medium, high)
England	23.9	20.3	12.9	17.6	5.4	79.5	83.2	100	100	N/A
Northfleet South	15	26.9	13.4	15.1	4.6	80.7	82.7	86.5	73.8	MEDIUM
Istead Rise	38.9	15.9	3.6	18.4	3.6	83.2	86.5	63.5	96.1	MEDIUM
Painters Ash	33.4	18.7	9	21.7	6.4	76.8	80.2	96.1	171.0	HIGH
Central	20.6	18.2	12.4	17.3	5.0	77.8	82.9	93.6	98.2	MEDIUM
Coldharbour	22.5	24.8	17.1	21.2	7.3	77.0	81.3	136.9	142.4	HIGH
Medway	22.7	22.2	13.4	16.4	5	78.6	82.5	117.3	122.3	N/A
Cuxton and Halling	25	20.1	6.8	15.4	5.5	83.9	83.8	66.1	89.5	LOW
Strood South	18.4	25.3	15.9	17	4.6	77.4	81.4	144.3	143.5	HIGH
Strood North	21.5	21.4	11	15.6	5.6	79.2	82.7	80.5	101.8	LOW
Strood Rural	24.0	21.8	9.3	15.4	4.3	80.5	83.7	107.5	128.9	LOW
Dartford	18.7	23.6	9.5	15.1	4.4	79.3	82.4	100.0	102.3	N/A

Ward	Percentage of community with increased susceptibility to health issues (older people - 60+) ⁽¹⁾	Percentage of children (aged <16) ⁽¹⁾	Income Deprivation ⁽²⁾	Percentage of people who reported having a limited long-term illness or disability which limits them ‘ a lot’ or ‘ a little’ ⁽³⁾	General health - % of residents who report ‘ Bad health and Very Bad Health’ ⁽³⁾	Life expectancy – Male ⁽⁴⁾	Life expectancy – Female ⁽⁴⁾	Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD), Standardised Admission Ratio (SAR) ⁽⁵⁾	Deaths from respiratory diseases ⁽⁶⁾	Ward Sensitivity (low, medium, high)
England	23.9	20.3	12.9	17.6	5.4	79.5	83.2	100	100	N/A
Newtown	13.8	23.2	8	11.9	**	82.5	84.8	104.8	111.2	HIGH
Stone Castle	11.1	23.3	7.3	11	**	76.4	83.7	141.2	79.6	HIGH
Stone House	15.9	25.6	12.4	19.4	**	74.7	77.2	174.7	178.0	HIGH
Bridge	3.0	37.2	*	8.2	**	75.2	*	*	141.2	HIGH
Temple Hill	13.1	28.3	16.7	18.3	**	78.3	82.0	211.1	105.9	HIGH
Longfield, New Barn and Southfleet	18.6	35.8	5.0	18.3	5.2	82.0	84.0	47.3	92.8	LOW
Tonbridge and Malling	24.7	21.7	8.0	14.9	4.0	80.4	84.6	76.3	88.0	N/A
Snodland East	18.2	22.9	16.7	16.7	5.3	78.6	79.1	157.3	154.9	HIGH

**Value cannot be calculated as number of cases is too small*

*** Data not available with new ward boundaries*

Sources:

Mid-Year Population Estimates 2020, Office for National Statistics

English Indices of Deprivation 2019, Department for Levelling Up, Housing and Communities

Census 2011, Office for National Statistics

Fingertips Public Health Data, Life expectancy at birth (male and female) 2016-2020, Office for Health Improvement and Disparities

Fingertips Public Health Data, Emergency Hospital Admissions for COPD 2016-2020, Office for Health Improvement and Disparities

Fingertips Public Health Data, Deaths from Respiratory Disease (all ages) 2016-2020, Office for Health Improvement and Disparities

Table 1.2 Ward sensitivities – north of the River Thames

Ward	Percentage of community with increased susceptibility to health issues (older people - 60+) ⁽¹⁾	Percentage of children (aged <16) ⁽¹⁾	Income Deprivation ⁽²⁾	Percentage of people who reported having a limited long-term illness or disability that limits them ‘ a lot’ or ‘ a little’ ⁽³⁾	General health - % of residents who report ‘ Bad health and Very Bad Health’ ⁽³⁾	Life expectancy – Male ⁽⁴⁾	Life expectancy – Female ⁽⁴⁾	Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD) (SAR) ⁽⁵⁾	Deaths from respiratory diseases ⁽⁶⁾	Ward sensitivity (low, medium, high)
England	23.9	20.3	12.9	17.6	5.4	79.5	83.2	100	100	N/A
Thurrock	18.4	24.5	13	15.6	4.7	78.6	82.4	123.5	119.0	N/A
Ockendon	17.5	25	15.6	18.1	6.5	77.8	81.8	127.4	139.2	HIGH
Belhus	15.9	25.3	19.6	18.9	6.5	75.6	80.7	187.4	154.5	HIGH
Orsett	28.5	18.4	4.8	14.3	4	80.5	82.6	67.9	92.6	MEDIUM
Stifford Clays	26.3	21.7	10.8	20.4	6	79.7	83.2	149.3	132.9	HIGH
Little Thurrock Rectory	23.6	20.6	7.4	14.8	4	80.7	84.6	94.0	118.0	LOW
Little Thurrock Blackshots	26.5	22.9	10.1	18.4	4.6	80.4	85.4	82.0	107.6	HIGH
Chadwell St Mary	23.1	25.3	17.9	21.9	7.4	77.3	82.0	180.5	120.2	HIGH

Ward	Percentage of community with increased susceptibility to health issues (older people - 60+) ⁽¹⁾	Percentage of children (aged <16) ⁽¹⁾	Income Deprivation ⁽²⁾	Percentage of people who reported having a limited long-term illness or disability that limits them ‘ a lot’ or ‘ a little’ ⁽³⁾	General health - % of residents who report ‘ Bad health and Very Bad Health’ ⁽³⁾	Life expectancy – Male ⁽⁴⁾	Life expectancy – Female ⁽⁴⁾	Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD) (SAR) ⁽⁵⁾	Deaths from respiratory diseases ⁽⁶⁾	Ward sensitivity (low, medium, high)
Tilbury St Chads	14.7	28.8	25.9	18.4	6.7	76.1	80.8	220.4	187.6	HIGH
Tilbury Riverside and Thurrock Park	14	31.5	24.7	15.7	5.5	74.1	79.7	203.6	111.0	HIGH
East Tilbury	19	25.2	11.6	13.8	4.2	79.3	82.0	90.2	110.5	MEDIUM
Aveley and Uplands	17.1	25.4	14.6	17.9	5.6	78.0	82.0	151.2	160.4	HIGH
West Thurrock and South Stifford	8.5	27.8	14.1	11.2	3.5	75.5	81.3	116.1	150.2	HIGH
Chafford and North Stifford	11	26.7	6.2	7.2	1.9	*	82.5	29.4	88.9	MEDIUM

Ward	Percentage of community with increased susceptibility to health issues (older people - 60+) ⁽¹⁾	Percentage of children (aged <16) ⁽¹⁾	Income Deprivation ⁽²⁾	Percentage of people who reported having a limited long-term illness or disability that limits them ‘ a lot’ or ‘ a little’ ⁽³⁾	General health - % of residents who report ‘ Bad health and Very Bad Health’ ⁽³⁾	Life expectancy – Male ⁽⁴⁾	Life expectancy – Female ⁽⁴⁾	Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD) (SAR) ⁽⁵⁾	Deaths from respiratory diseases ⁽⁶⁾	Ward sensitivity (low, medium, high)
Stanford-le-Hope West	19.4	23.5	10.8	16.4	4.5	79.1	82.6	147.8	125.1	MEDIUM
Stanford East and Corringham Town	28.4	20.4	14.0	21.4	6.2	77.4	81.8	158.3	112.3	HIGH
The Homesteads	29.1	19.2	4.7	13.1	3.2	83.4	86.4	57.9	58.8	LOW
Corringham and Fobbing	33.3	17.8	6.2	17.3	4.3	82.4	86.0	88.3	80.3	LOW
Havering	23.3	21.4	10.8	17.3	5.2	79.5	83.7	99.0	104.6	N/A
Upminster	31.1	18.1	3.7	16.3	4.1	80.2	85.2	38.0	82.8	MEDIUM
Cranham	29.1	19.7	5.1	17.3	4.8	83.0	87.2	69.9	78.4	MEDIUM
Harold Wood	22.1	20.1	11.2	18	5.6	80.3	84.7	127.2	104.8	LOW

Ward	Percentage of community with increased susceptibility to health issues (older people - 60+) ⁽¹⁾	Percentage of children (aged <16) ⁽¹⁾	Income Deprivation ⁽²⁾	Percentage of people who reported having a limited long-term illness or disability that limits them ' a lot' or ' a little' ⁽³⁾	General health - % of residents who report ' Bad health and Very Bad Health' ⁽³⁾	Life expectancy – Male ⁽⁴⁾	Life expectancy – Female ⁽⁴⁾	Emergency hospital admissions for Chronic Obstructive Pulmonary Disease (COPD) (SAR) ⁽⁵⁾	Deaths from respiratory diseases ⁽⁶⁾	Ward sensitivity (low, medium, high)
Rainham and Wennington	23.1	22.4	11.9	16.5	5.2	79.7	83.1	88.8	128.5	LOW
Gooshays	15.7	28.8	21.3	19.9	7.1	76.9	80.5	225.3	134.4	HIGH
Brentwood	26	19.9	6.4	15.6	4	81.0	84.6	57.9	85.4	N/A
Warley	23.9	19.7	6.2	15.8	4.8	78.9	83.8	49.2	85.8	LOW
South Weald	26.9	19.7	4.4	12.9	*	*	*	60.3	63.1	LOW
Herongate, Ingrave and West Horndon	29.1	16.7	4.4	16.4	3.8	82.9	81.7	93.1	93.6	LOW

*Value cannot be calculated as number of cases is too small.

Sources:

Mid-Year Population Estimates 2020, Office for National Statistics

English Indices of Deprivation 2019, Department for Levelling Up, Housing and Communities

Census 2011, Office for National Statistics

Fingertips Public Health Data, Life expectancy at birth (male and female) 2016-2020, Office for Health Improvement and Disparities

Fingertips Public Health Data, Emergency Hospital Admissions for COPD 2016-2020, Office for Health Improvement and Disparities

Fingertips Public Health Data, Deaths from Respiratory Disease (all ages) 2016-2020, Office for Health Improvement and Disparities

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