

SILVERTOWN TUNNEL

**Preliminary Environmental
Information Report:
Appendix 11.C**

**Traffic Flow Assessment
for Assessed Case 2036**



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Table 11.C-1 Summary of predicted 2036 traffic flow percentage increases for the Scheme

Road Name	2036 Future Baseline/ Reference Case Flows			Future Baseline/ Assessed Case Flows with Scheme			Percentage change		
	AADT flows	AM peak hour flow	PM Peak hour flow	AADT flows	AM peak hour flow	PM Peak hour flow	AADT flows	AM peak hour flow	PM Peak hour flow
Strategic Network									
A2 Shooters Hill Road (22078/22295)	19439	911	1164	19311	890	1081	-1%	-2%	-7%
A2 Shooters Hill Road (22078/24612)	14891	754	957	14890	764	999	0%	1%	4%
A2 Shooters Hill Road (22294/22078)	17302	857	1076	17122	816	1146	-1%	-5%	6%
A2 Shooters Hill Road (24213/24612)	18866	852	1274	18942	842	1254	0%	-1%	-2%
A2 Shooters Hill Road (24612/22078)	19732	877	1287	19704	866	1249	0%	-1%	-3%
A12 Blackwall Tunnel Northern Approach (20453/20537)	45000	2535	1927	45828	2479	2308	2%	-2%	20%
A12 Blackwall Tunnel Northern Approach (20537/20181)	46152	2594	1958	47122	2540	2374	2%	-2%	21%
A12 Blackwall Tunnel Northern Approach (20540/20541)	52581	2582	3153	52678	2570	3162	0%	0%	0%
A12 Blackwall Tunnel Northern Approach (20541/20452)	50933	2502	3097	51043	2504	3109	0%	0%	0%
A13 East of A12 (20093/20550)	28816	1587	1784	22298	1271	1486	-23%	-20%	-17%
A13 East of A12 (20173/20093)	28731	1625	1714	27436	1602	1715	-5%	-1%	0%
A13 West of A12 (20060/20157)	18171	714	816	18937	625	1323	4%	-12%	62%
A13 West of A12 (20060/20854)	12764	757	482	12574	753	472	-1%	-1%	-2%
A13 West of A12 (20154/20060)	21244	1466	962	18396	1445	565	-13%	-1%	-41%
A13 West of A12 (20854/20060)	8951	362	270	8712	294	376	-3%	-19%	39%
A102 Blackwall Tunnel Southern Approach (22092/22099)	39076	1870	2384	40821	1992	2524	4%	7%	6%
A102 Blackwall Tunnel Southern Approach	53269	2666	3376	56294	2873	3603	6%	8%	7%

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(22099/22120)									
A102 Blackwall Tunnel Southern Approach (22101/22095)	41290	1880	2742	42774	1796	3525	4%	-4%	29%
A102 Blackwall Tunnel Southern Approach (22113/22117)	40206	2047	2691	45169	2435	3130	12%	19%	16%
A102 Blackwall Tunnel Southern Approach (22122/22101)	55080	2523	3652	57001	2464	4540	3%	-2%	24%
A102 Blackwall Tunnel Southern Approach (22126/20040)	49022	2441	2945	42788	2264	2775	-13%	-7%	-6%
A102 Blackwall Tunnel Southern Approach (22128/22116)	42673	1939	2922	46067	1887	4210	8%	-3%	44%
A102 Blackwall Tunnel Southern Approach (22134/22128)	50002	2228	3303	54690	2220	4899	9%	0%	48%
A1261 West India Dock Road (20035/20050)	36881	1304	2705	35583	1229	2694	-4%	-6%	0%
A1261 West India Dock Road (20050/20062)	36881	1304	2705	41909	2863	1956	14%	120%	-28%
A1261 West India Dock Road (20049/20033)	39948	2734	1904	35583	1229	2694	-11%	-55%	42%
A1261 West India Dock Road (20064/20049)	39948	2734	1904	41982	2882	1956	5%	5%	3%
Local Network									
A102 Lower Lea Crossing (20164/20167)	16301	721	1167	19027	763	1597	17%	6%	37%
A102 Lower Lea Crossing (20166/20163)	17341	1220	1548	20968	1437	1509	21%	18%	-3%
A102 Lower Lea Crossing (44034/44340)	14921	1029	901	16758	1045	1203	12%	2%	34%
A102 Lower Lea Crossing (44340/44034)	15381	745	1008	16666	833	1198	8%	12%	19%
A112 Prince Regent Lane (44180/44039)	3830	250	175	3833	253	179	0%	1%	2%
A112 Prince Regent Lane (44039/44180)	12927	512	693	12553	512	688	-3%	0%	-1%
A124 Barking Road (44244/44031)	7414	355	494	7468	354	500	1%	0%	1%
A124 Barking Road (44244/44533)	9175	401	773	9191	396	806	0%	-1%	4%
A206 Woolwich Road (22059/22091)	13907	579	763	13784	609	689	-1%	5%	-10%
A206 Woolwich Road (22091/22059)	13471	658	791	13434	653	803	0%	-1%	1%
A206 Woolwich Road (22098/22109)	11307	565	619	11255	597	577	0%	6%	-7%

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A206 Woolwich Road (22109/22098)	11123	416	911	10788	408	874	-3%	-2%	-4%
A206 Woolwich Road (22140/22544)	12772	713	640	12638	681	680	-1%	-5%	6%
A206 Woolwich Road (22147/22157)	11551	670	586	11303	643	568	-2%	-4%	-3%
A206 Woolwich Road (22157/22147)	14287	581	941	14293	606	920	0%	4%	-2%
A206 Woolwich Road (22157/22161)	11608	592	600	11344	567	577	-2%	-4%	-4%
A206 Woolwich Road (22161/22157)	15211	651	963	15212	676	941	0%	4%	-2%
A206 Woolwich Road (22544/22140)	15247	639	949	15339	670	929	1%	5%	-2%
A206 Woolwich Road (22544/22147)	12586	685	672	12462	654	708	-1%	-4%	5%
A207 Shooters Hill Road (22103/22093)	11404	612	648	11600	627	679	2%	3%	5%
A207 Shooters Hill Road (22103/22493)	13500	686	918	13360	661	930	-1%	-4%	1%
A207 Shooters Hill Road (22493/22103)	11669	661	671	11847	671	700	2%	2%	4%
A207 Shooters Hill Road (22493/22136)	14861	787	990	14748	764	1015	-1%	-3%	3%
A1011 Silvertown Way (44010/44520)	8751	455	565	9159	629	478	5%	38%	-15%
A1011 Silvertown Way (44013/44520)	6679	247	591	7552	314	732	13%	27%	24%
A1011 Silvertown Way (44013/44522)	16623	913	972	16820	1073	857	1%	17%	-12%
A1011 Silvertown Way (44530/44013)	7632	296	629	8479	359	774	11%	21%	23%
B210 Charlton Road (22047/22042)	3921	372	166	3897	376	153	-1%	1%	-8%
B210 Charlton Road (22047/22081)	5766	264	413	5775	286	347	0%	8%	-16%
B210 Charlton Road (22081/22047)	8699	632	400	8565	628	376	-2%	-1%	-6%
B210 Charlton Road (22265/22266)	15730	788	1092	15736	791	1076	0%	0%	-1%
B210 Charlton Road (22266/22268)	11638	561	728	11752	573	731	1%	2%	0%
B210 Charlton Road (22267/22089)	16614	989	1102	16462	982	1069	-1%	-1%	-3%
B210 Charlton Road (22276/22546)	11360	756	718	11337	761	693	0%	1%	-4%
B210 Charlton Road (22501/22268)	12521	762	738	12478	764	723	0%	0%	-2%
B210 Charlton Road (22546/22276)	9800	502	659	9880	516	657	1%	3%	0%
B210 Charlton Road (22613/22042)	5477	287	316	5807	324	342	6%	13%	8%

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B212 Prince of Wales Road (22080/24612)	2140	137	204	2227	137	230	4%	0%	13%
B212 Prince of Wales Road (22616/24207)	5786	346	538	5839	341	590	1%	-1%	10%
B212 Prince of Wales Road (24612/22616)	5786	877	1287	5839	341	590	1%	-61%	-54%
Connaught Bridge (44037/44047)	15002	683	1002	15646	726	1084	4%	6%	8%
Connaught Bridge (44047/44037)	10788	754	575	12011	750	777	11%	-1%	35%
Freemasons Road (44032/44042)	2704	96	141	2680	90	144	-1%	-6%	3%
Freemasons Road (44042/44032)	1992	150	212	2108	151	222	6%	1%	5%
Abbott Road (20197/20200)	2170	166	119	2100	166	92	-3%	0%	-23%
Abbott Road (20200/20197)	5877	383	407	5454	379	243	-7%	-1%	-40%
Victoria Dock Road (44025/44032)	7362	402	400	7642	413	428	4%	3%	7%
Victoria Dock Road (44032/44039)	8803	529	575	9047	541	591	3%	2%	3%
Millennium Way (22313/22314)	11492	611	560	11730	618	608	2%	1%	9%
Millennium Way (22314/22313)	10930	359	663	10865	358	658	-1%	0%	-1%
Bugsby's Way (22141/22510)	6052	319	353	6282	228	449	4%	-28%	27%
Bugsby's Way (22145/22510)	16254	722	802	16325	736	805	0%	2%	0%
Bugsby's Way (22145/22588)	14602	418	799	14949	410	931	2%	-2%	16%
Bugsby's Way (22510/22141)	7617	389	363	7699	405	350	1%	4%	-4%
Bugsby's Way (22588/22145)	14552	770	881	14609	780	879	0%	1%	0%
Bugsby's Way (22510/22145)	13487	402	772	13873	399	900	3%	-1%	17%
Blackwall Lane (22091/22104)	9408	466	532	9755	506	563	4%	9%	6%
Blackwall Lane (22106/22104)	6505	314	381	6595	308	467	1%	-2%	23%
Blackwall Lane (22106/22107)	10216	568	559	10542	610	582	3%	7%	4%
Blackwall Lane (22130/22107)	6027	278	362	6296	283	452	4%	2%	25%
Anchor and Hope Lane (22161/22162)	13806	674	799	13858	686	790	0%	2%	-1%
Anchor and Hope Lane (22162/22161)	14602	418	799	14949	410	931	2%	-2%	16%

Table 11.C-2 Driver Stress impact assessment - 2036 assessed case

Road Name	Road type dual/single	No. lanes per Direction	Baseline AM peak hour flow (per lane)	Baseline PM peak hour flow (per Lane)	Baseline AM peak hour Journey Speed (kph)	Baseline PM peak hour Journey Speed (kph)	Impact (AM Peak)	Impact (PM Peak)
<i>Strategic Network</i>								
A2 Shooters Hill Road (22078/22295)	Dual Carriageway	2	445	540	8.985	21.455	Moderate	Moderate
A2 Shooters Hill Road (22078/24612)	Dual Carriageway	2	382	499	27.53	24.39	Moderate	Moderate
A2 Shooters Hill Road (22294/22078)	Dual Carriageway	2	408	573	18.65	19.44	Moderate	Moderate
A2 Shooters Hill Road (24213/24612)	Dual Carriageway	2	421	627	26.82	19.97	Moderate	Moderate
A2 Shooters Hill Road (24612/22078)	Dual Carriageway	2	433	625	23.775	22.2	Moderate	Moderate
A12 Blackwall Tunnel Northern Approach (20453/20537)	Dual Carriageway	3	826	769	53.175	58.09	Moderate	Moderate

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A12 Blackwall Tunnel Northern Approach (20537/20181)	Dual Carriageway	3	847	791	50.89	56.5	Moderate	Moderate
A12 Blackwall Tunnel Northern Approach (20540/20541)	Dual Carriageway	3	857	1054	51.91	51.8	Moderate	Moderate
A12 Blackwall Tunnel Northern Approach (20541/20452)	Dual Carriageway	3	835	1036	51.155	50.21	Moderate	Moderate
A13 East of A12 (20093/20550)	Dual Carriageway	3	424	495	41.98	41.73	Moderate	Moderate
A13 East of A12 (20550/20093)	Dual Carriageway	3	378	453	16.705	23.15	Moderate	Moderate
A13 East of A12 (20170/20174)	Dual Carriageway	3	356	461	30.835	30.385	Moderate	Moderate
A13 East of A12 (20173/20093)	Dual Carriageway	3	534	572	17.735	17.825	Moderate	Moderate
A13 West of A12 (20060/20157)	Dual Carriageway	2	313	661	25.045	20.785	Moderate	Moderate
A13 West of A12 (20060/20854)	Dual Carriageway	2	377	236	14.24	30.89	Moderate	Moderate
A13 West of A12 (20154/20060)	Dual	2	722	282	4.285	6.525	Moderate	Moderate

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	Carriageway							
A13 West of A12 (20854/20060)	Dual Carriageway	2	147	188	6.32	3.125	Moderate	Moderate
A102 Blackwall Tunnel Southern Approach (22092/22099)	Dual Carriageway	3	664	841	66.19	63.625	Moderate	Moderate
A102 Blackwall Tunnel Southern Approach (22099/22120)	Dual Carriageway	3	958	1201	58.53	55.835	Moderate	High
A102 Blackwall Tunnel Southern Approach (22101/22095)	Dual Carriageway	3	599	1175	74.725	56.15	Moderate	Moderate
A102 Blackwall Tunnel Southern Approach (22113/22117)	Dual Carriageway	2	1218	1565	36.46	35.15	High	High
A102 Blackwall Tunnel Southern Approach (22122/22101)	Dual Carriageway	2	1232	2270	63.14	37.335	High	High
A102 Blackwall Tunnel Southern Approach (22126/20040)	Dual Carriageway	2	1132	1387	33.64	33.37	Moderate	High
A102 Blackwall Tunnel Southern Approach (22128/22116)	Dual Carriageway	2	944	2105	71.515	47.325	Moderate	High
A102 Blackwall Tunnel Southern Approach (22134/22128)	Dual	2	1110	2450	57.92	14.85	Moderate	High

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	Carriageway							
A1261 West India Dock Road (20035/20050)	Dual Carriageway	2	614	1347	61.63	48.335	Moderate	High
A1261 West India Dock Road (20050/20062)	Dual Carriageway	2	1432	978	19.08	53.835	High	Moderate
A1261 West India Dock Road (20049/20033)	Dual Carriageway	2	614	1347	57.665	42.51	Moderate	High
A1261 West India Dock Road (20064/20049)	Dual Carriageway	2	1441	978	28.09	56.91	High	Moderate
Local Network								
A102 Lower Lea Crossing (20164/20167)	Dual Carriageway	2	382	799	55.14	49.275	Moderate	Moderate
A102 Lower Lea Crossing (20166/20163)	Dual Carriageway	2	719	754	14.16	7.84	Moderate	Moderate
A102 Lower Lea Crossing (44034/44340)	Dual Carriageway	2	522	602	23.32	23.805	Moderate	Moderate
A102 Lower Lea Crossing (44340/44034)	Dual Carriageway	2	417	599	28.055	24.115	Moderate	Moderate

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A112 Prince Regent Lane (44180/44039)	Single carriageway	1	253	179	17.21	19.26	Moderate	Moderate
A112 Prince Regent Lane (44039/44180)	Single carriageway	1	512	688	36	36	Moderate	Moderate
A124 Barking Road (44244/44031)	Single carriageway	1	354	500	4.07	5.695	Moderate	Moderate
A124 Barking Road (44244/44533)	Single carriageway	1	396	806	32	32	Moderate	Moderate
A206 Woolwich Road (22059/22091)	Single carriageway	1	609	689	16.55	22.81	Moderate	Moderate
A206 Woolwich Road (22091/22059)	Single carriageway	1	653	803	13.14	14.09	Moderate	Moderate
A206 Woolwich Road (22098/22109)	Single carriageway	1	597	577	34	34	Moderate	Moderate
A206 Woolwich Road (22109/22098)	Single carriageway	1	408	874	32.265	31.335	Moderate	Moderate
A206 Woolwich Road (22140/22544)	Single carriageway	1	681	680	31.995	32.645	Moderate	Moderate

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A206 Woolwich Road (22147/22157)	Single carriageway	1	643	568	33.92	34.14	Moderate	Moderate
A206 Woolwich Road (22157/22147)	Single carriageway	1	606	920	33.935	33.375	Moderate	Moderate
A206 Woolwich Road (22157/22161)	Single carriageway	1	567	577	12.605	14.115	Moderate	Moderate
A206 Woolwich Road (22161/22157)	Single carriageway	1	676	941	32.945	32.645	Moderate	Moderate
A206 Woolwich Road (22544/22140)	Single carriageway	1	670	929	36	36	Moderate	Moderate
A206 Woolwich Road (22544/22147)	Single carriageway	1	654	708	30.77	24.47	Moderate	Moderate
A207 Shooters Hill Road (22103/22093)	Single carriageway	1	627	679	10.605	7.15	Moderate	Moderate
A207 Shooters Hill Road (22103/22493)	Single carriageway	1	661	930	32.995	31.98	Moderate	Moderate
A207 Shooters Hill Road (22493/22103)	Single carriageway	1	671	700	29.92	32.255	Moderate	Moderate
A207 Shooters Hill Road (22493/22136)	Single	1	764	1015	33.775	33.49	Moderate	Moderate

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	carriageway							
A1011 Silvertown Way (44010/44520)	Single carriageway	1	629	478	11.09	13.49	Moderate	Moderate
A1011 Silvertown Way (44013/44520)	Single carriageway	1	314	732	11.585	8.375	Moderate	Moderate
A1011 Silvertown Way (44013/44522)	Single carriageway	1	1073	857	11.305	17.825	Moderate	Moderate
A1011 Silvertown Way (44530/44013)	Single carriageway	1	359	774	27.295	27.665	Moderate	Moderate
B210 Charlton Road (22047/22042)	Single carriageway	1	376	153	40.955	42.4	Moderate	Moderate
B210 Charlton Road (22047/22081)	Single carriageway	1	286	347	42.77	42.275	Moderate	Moderate
B210 Charlton Road (22081/22047)	Single carriageway	1	628	376	27.67	34.02	Moderate	Moderate
B210 Charlton Road (22265/22266)	Single carriageway	1	791	1076	31.805	31.59	Moderate	Moderate
B210 Charlton Road (22266/22268)	Single	1	573	731	32.645	32.48	Moderate	Moderate

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	carriageway							
B210 Charlton Road (22267/22089)	Single carriageway	1	982	1069	31.655	31.8	Moderate	Moderate
B210 Charlton Road (22276/22546)	Single carriageway	1	761	693	34.84	35.05	Moderate	Moderate
B210 Charlton Road (22501/22268)	Single carriageway	1	764	723	28.065	29.12	Moderate	Moderate
B210 Charlton Road (22546/22276)	Single carriageway	1	516	657	35.16	35.115	Moderate	Moderate
B210 Charlton Road (22613/22042)	Single carriageway	1	324	342	33.685	36.43	Moderate	Moderate
B212 Prince of Wales Road (22080/24612)	Single carriageway	1	137	230	7.425	6.095	Moderate	Moderate
B212 Prince of Wales Road (22616/24207)	Single carriageway	1	341	590	35.21	35.115	Moderate	Moderate
B212 Prince of Wales Road (24612/22616)	Single carriageway	1	341	590	36	36	Moderate	Moderate
Connaught Bridge (44037/44047)	Dual Carriageway	2	363	542	37.415	37.08	Moderate	Moderate

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Connaught Bridge (44047/44037)	Dual Carriageway	2	375	389	37.835	37.945	Moderate	Moderate
Freemasons Road (44032/44042)	Single carriageway	1	90	144	27.715	27.7	Moderate	Moderate
Freemasons Road (44042/44032)	Single carriageway	1	151	222	10.99	6.355	Moderate	Moderate
Abbott Road (20197/20200)	Single carriageway	1	166	92	27.3	27.34	Moderate	Moderate
Abbott Road (20200/20197)	Single carriageway	1	379	243	28	28	Moderate	Moderate
Victoria Dock Road (44025/44032)	Single carriageway	1	413	428	15.33	20.195	Moderate	Moderate
Victoria Dock Road (44032/44039)	Single carriageway	1	541	591	25.09	29.16	Moderate	Moderate
Millennium Way (22313/22314)	Dual Carriageway	2	309	304	30	30	Moderate	Moderate
Millennium Way (22314/22313)	Dual Carriageway	2	179	329	30	30	Moderate	Moderate

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Bugsby's Way (22141/22510)	Dual Carriageway	2	114	225	19.555	17.465	Moderate	Moderate
Bugsby's Way (22145/22510)	Dual Carriageway	2	368	402	23.695	23.825	Moderate	Moderate
Bugsby's Way (22145/22588)	Dual Carriageway	2	205	466	31.48	26.725	Moderate	Moderate
Bugsby's Way (22510/22141)	Dual Carriageway	2	203	175	35.06	35.135	Moderate	Moderate
Bugsby's Way (22588/22145)	Dual Carriageway	2	390	439	36.105	36.225	Moderate	Moderate
Bugsby's Way (22510/22145)	Dual Carriageway	2	200	450	37.155	36.725	Moderate	Moderate
Blackwall Lane (22091/22104)	Single carriageway	1	506	563	35.675	35.77	Moderate	Moderate
Blackwall Lane (22106/22104)	Single carriageway	1	308	467	33.05	32.81	Moderate	Moderate
Blackwall Lane (22106/22107)	Single carriageway	1	610	582	8.845	11.44	Moderate	Moderate
Blackwall Lane (22130/22107)	Single	1	283	452	10.69	12.125	Moderate	Moderate

	carriageway							
Anchor and Hope Lane (22161/22162)	Single carriageway	1	686	790	23.285	24.215	Moderate	Moderate
Anchor and Hope Lane (22162/22161)	Single carriageway	1	410	931	32.755	30.73	Moderate	Moderate

