

SILVERTOWN TUNNEL

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

**Traffic Flow Assessment
for Assessed Case 2021**



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Table 11.B-1 Summary of predicted 2021 traffic flow percentage increases for the Scheme

Road Name	2021 Future Baseline/ Reference Case Flows			2021 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)	19719	957	1137	19468	961	1086	-1%	0%	-5%
A2 Shooters Hill Road (22078/24612)	14849	745	964	14464	729	967	-3%	-2%	0%
A2 Shooters Hill Road (22294/22078)	17954	874	1083	17331	847	1105	-3%	-3%	2%
A2 Shooters Hill Road (24213/24612)	18845	863	1260	18827	880	1257	0%	2%	0%
A2 Shooters Hill Road (24612/22078)	19796	897	1255	19747	912	1255	0%	2%	0%
A12 Blackwall Tunnel Northern Approach (20453/20537)	43061	2462	1858	42646	2367	2191	-1%	-4%	18%
A12 Blackwall Tunnel Northern Approach (20537/20181)	44119	2518	1890	43802	2425	2250	-1%	-4%	19%
A12 Blackwall Tunnel Northern Approach (20540/20541)	49738	2422	3164	48941	2445	3137	-2%	1%	-1%
A12 Blackwall Tunnel Northern Approach (20541/20452)	47999	2336	3081	47158	2354	3057	-2%	1%	-1%
A13 East of A12 (20093/20550)	27065	1506	1729	21070	1180	1374	-22%	-22%	-21%
A13 East of A12 (20173/20093)	26869	1511	1610	25247	1464	1602	-6%	-3%	-1%
A13 West of A12 (20060/20157)	17929	681	846	18038	635	1177	1%	-7%	39%
A13 West of A12 (20060/20854)	12677	754	530	12378	755	535	-2%	0%	1%
A13 West of A12 (20154/20060)	21020	1453	981	17665	1397	487	-16%	-4%	-50%
A13 West of A12 (20854/20060)	8436	305	265	8306	283	322	-2%	-7%	22%
A102 Blackwall Tunnel Southern Approach (22092/22099)	37498	1822	2329	37356	1820	2412	0%	0%	4%
A102 Blackwall Tunnel Southern Approach	49344	2551	3234	49677	2598	3421	1%	2%	6%

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(22099/22120)									
A102 Blackwall Tunnel Southern Approach (22101/22095)	38948	1762	2614	38730	1599	3169	-1%	-9%	21%
A102 Blackwall Tunnel Southern Approach (22113/22117)	37993	2013	2612	38652	2121	2864	2%	5%	10%
A102 Blackwall Tunnel Southern Approach (22122/22101)	52431	2355	3543	51573	2147	4181	-2%	-9%	18%
A102 Blackwall Tunnel Southern Approach (22126/20040)	47062	2440	2949	36607	2006	2556	-22%	-18%	-13%
A102 Blackwall Tunnel Southern Approach (22128/22116)	41484	1945	2930	40449	1667	3768	-2%	-14%	29%
A102 Blackwall Tunnel Southern Approach (22134/22128)	48702	2239	3301	47731	1950	4291	-2%	-13%	30%
A1261 West India Dock Road (20035/20050)	35158	1301	2781	33904	1217	2695	-4%	-6%	-3%
A1261 West India Dock Road (20050/20062)	35158	1301	2781	38922	2771	1852	11%	113%	-33%
A1261 West India Dock Road (20049/20033)	37392	2647	1721	33905	1217	2695	-9%	-54%	57%
A1261 West India Dock Road (20064/20049)	37392	2647	1721	38922	2771	1852	4%	5%	8%
Local Network									
A102 Lower Lea Crossing (20164/20167)	13075	576	971	14807	628	1422	13%	9%	46%
A102 Lower Lea Crossing (20166/20163)	13676	1062	857	16214	1220	910	19%	15%	6%
A102 Lower Lea Crossing (44034/44340)	12590	851	763	13559	839	994	8%	-1%	30%
A102 Lower Lea Crossing (44340/44034)	12201	561	873	12471	595	950	2%	6%	9%
A112 Prince Regent Lane (44180/44039)	3775	260	164	3842	256	173	2%	-2%	5%
A112 Prince Regent Lane (44039/44180)	11810	458	691	11449	468	639	-3%	2%	-8%
A124 Barking Road (44244/44031)	7437	351	496	7391	351	496	-1%	0%	0%
A124 Barking Road (44244/44533)	7848	344	661	7831	334	685	0%	-3%	4%
A206 Woolwich Road (22059/22091)	13417	566	720	13505	592	698	1%	5%	-3%
A206 Woolwich Road (22091/22059)	13616	659	789	13359	654	790	-2%	-1%	0%
A206 Woolwich Road (22098/22109)	9796	515	468	10159	562	488	4%	9%	4%

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A206 Woolwich Road (22109/22098)	10627	397	861	10503	390	851	-1%	-2%	-1%
A206 Woolwich Road (22140/22544)	10812	603	537	10790	574	617	0%	-5%	15%
A206 Woolwich Road (22147/22157)	9558	573	466	9571	567	520	0%	-1%	12%
A206 Woolwich Road (22157/22147)	12941	466	869	12759	498	822	-1%	7%	-5%
A206 Woolwich Road (22157/22161)	9723	532	476	9687	508	538	0%	-5%	13%
A206 Woolwich Road (22161/22157)	13695	523	888	13523	560	841	-1%	7%	-5%
A206 Woolwich Road (22544/22140)	14772	594	903	14595	606	858	-1%	2%	-5%
A206 Woolwich Road (22544/22147)	10611	581	563	10581	551	641	0%	-5%	14%
A207 Shooters Hill Road (22103/22093)	11771	635	638	12316	664	660	5%	5%	3%
A207 Shooters Hill Road (22103/22493)	12790	705	875	12798	692	900	0%	-2%	3%
A207 Shooters Hill Road (22493/22103)	11714	679	636	12228	712	671	4%	5%	5%
A207 Shooters Hill Road (22493/22136)	13879	775	927	13903	762	959	0%	-2%	3%
A1011 Silvertown Way (44010/44520)	6402	321	421	6785	458	389	6%	43%	-8%
A1011 Silvertown Way (44013/44520)	4792	208	407	5287	232	487	10%	12%	20%
A1011 Silvertown Way (44013/44522)	13567	760	793	13868	890	758	2%	17%	-4%
A1011 Silvertown Way (44530/44013)	5654	251	443	6138	271	528	9%	8%	19%
B210 Charlton Road (22047/22042)	2977	362	118	2858	358	118	-4%	-1%	0%
B210 Charlton Road (22047/22081)	5106	239	393	5081	254	367	-1%	6%	-7%
B210 Charlton Road (22081/22047)	7573	610	305	7381	599	309	-3%	-2%	1%
B210 Charlton Road (22265/22266)	14961	762	1054	14976	768	1062	0%	1%	1%
B210 Charlton Road (22266/22268)	10992	541	685	10997	553	678	0%	2%	-1%
B210 Charlton Road (22267/22089)	14059	905	972	13834	891	982	-2%	-2%	1%
B210 Charlton Road (22276/22546)	9407	696	588	9277	691	586	-1%	-1%	0%
B210 Charlton Road (22501/22268)	10089	686	602	9854	675	599	-2%	-2%	-1%
B210 Charlton Road (22546/22276)	9169	443	630	9160	454	628	0%	2%	0%
B210 Charlton Road (22613/22042)	5000	249	329	4955	259	324	-1%	4%	-2%

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B212 Prince of Wales Road (22080/24612)	1663	110	181	1651	112	194	-1%	2%	7%
B212 Prince of Wales Road (22616/24207)	5256	308	498	5114	296	521	-3%	-4%	5%
B212 Prince of Wales Road (24612/22616)	5256	308	498	5114	296	521	-3%	-4%	5%
Connaught Bridge (44037/44047)	12201	514	933	12295	535	929	1%	4%	0%
Connaught Bridge (44047/44037)	8896	628	467	9813	623	650	10%	-1%	39%
Freemasons Road (44032/44042)	2796	106	174	2767	104	175	-1%	-2%	0%
Freemasons Road (44042/44032)	2522	166	241	2568	166	241	2%	0%	0%
Abbott Road (20197/20200)	2106	164	110	2076	164	93	-1%	0%	-15%
Abbott Road (20200/20197)	4538	330	386	4265	356	204	-6%	8%	-47%
Victoria Dock Road (44025/44032)	6012	366	310	6181	384	342	3%	5%	10%
Victoria Dock Road (44032/44039)	7624	498	425	7863	518	464	3%	4%	9%
Millennium Way (22313/22314)	10369	535	562	10533	544	603	2%	2%	7%
Millennium Way (22314/22313)	9571	325	584	9447	323	578	-1%	-1%	-1%
Bugsby's Way (22141/22510)	5786	232	357	5827	231	366	1%	-1%	2%
Bugsby's Way (22145/22510)	14789	672	724	14817	683	730	0%	2%	1%
Bugsby's Way (22145/22588)	13875	353	787	13847	353	805	0%	0%	2%
Bugsby's Way (22510/22141)	6541	320	320	6741	344	326	3%	8%	2%
Bugsby's Way (22588/22145)	14188	715	804	14190	726	801	0%	2%	0%
Bugsby's Way (22510/22145)	12654	318	760	12705	322	790	0%	1%	4%
Blackwall Lane (22091/22104)	9277	462	561	8973	440	544	-3%	-5%	-3%
Blackwall Lane (22106/22104)	6228	290	376	6117	286	435	-2%	-1%	16%
Blackwall Lane (22106/22107)	9979	549	584	9641	526	558	-3%	-4%	-5%
Blackwall Lane (22130/22107)	5944	266	358	5869	266	418	-1%	0%	17%
Anchor and Hope Lane (22161/22162)	13651	658	722	13612	652	727	0%	-1%	1%
Anchor and Hope Lane (22162/22161)	13875	353	787	13847	353	805	0%	0%	2%

Table 11.B-2 Driver Stress impact assessment - 2021 assessed case

Road Name	Road type dual/single	No. lanes	Baseline AM peak hour flow (per lane)	Baseline PM peak hour flow (per Lane)	Baseline AM peak hour Journey Speed	Baseline PM peak hour Journey Speed	Impact	
<i>Strategic Network</i>							AM	PM
A2 Shooters Hill Road (22078/22295)	Dual Carriageway	2	480	543	12	22	M	M
A2 Shooters Hill Road (22078/24612)	Dual Carriageway	2	365	483	28	25	M	M
A2 Shooters Hill Road (22294/22078)	Dual Carriageway	2	423	552	18	20	M	M
A2 Shooters Hill Road (24213/24612)	Dual Carriageway	2	440	628	27	20	M	M
A2 Shooters Hill Road (24612/22078)	Dual Carriageway	2	456	627	23	23	M	M
A12 Blackwall Tunnel Northern Approach (20453/20537)	Dual Carriageway	3	789	730	54	59	M	M

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A12 Blackwall Tunnel Northern Approach (20537/20181)	Dual Carriageway	3	808	750	52	57	M	M
A12 Blackwall Tunnel Northern Approach (20540/20541)	Dual Carriageway	3	815	1046	53	52	M	M
A12 Blackwall Tunnel Northern Approach (20541/20452)	Dual Carriageway	3	785	1019	52	51	M	M
A13 East of A12 (20093/20550)	Dual Carriageway	3	393	458	42	42	M	M
A13 East of A12 (20550/20093)	Dual Carriageway	3	337	451	21	23	M	M
A13 East of A12 (20170/20174)	Dual Carriageway	3	338	482	31	30	M	M
A13 East of A12 (20173/20093)	Dual Carriageway	3	488	534	19	19	M	M
A13 West of A12 (20060/20157)	Dual Carriageway	2	317	588	25	21	M	M
A13 West of A12 (20060/20854)	Dual Carriageway	2	377	268	14	31	M	M
A13 West of A12 (20154/20060)	Dual	2	699	244	5	6	M	M

	Carriageway							
A13 West of A12 (20854/20060)	Dual Carriageway	2	142	161	6	4	M	M
A102 Blackwall Tunnel Southern Approach (22092/22099)	Dual Carriageway	3	607	804	69	66	M	M
A102 Blackwall Tunnel Southern Approach (22099/22120)	Dual Carriageway	3	866	1140	63	58	M	M
A102 Blackwall Tunnel Southern Approach (22101/22095)	Dual Carriageway	3	533	1056	77	61	M	M
A102 Blackwall Tunnel Southern Approach (22113/22117)	Dual Carriageway	2	1061	1432	39	37	M	M
A102 Blackwall Tunnel Southern Approach (22122/22101)	Dual Carriageway	2	1074	2091	68	47	M	M
A102 Blackwall Tunnel Southern Approach (22126/20040)	Dual Carriageway	2	1003	1278	39	37	M	M
A102 Blackwall Tunnel Southern Approach (22128/22116)	Dual Carriageway	2	833	1884	74	53	M	M
A102 Blackwall Tunnel Southern Approach (22134/22128)	Dual	2	975	2146	62	40	M	M

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	Carriageway							
A1261 West India Dock Road (20035/20050)	Dual Carriageway	2	609	1347	62	48	M	M
A1261 West India Dock Road (20050/20062)	Dual Carriageway	2	1386	926	27	55	H	M
A1261 West India Dock Road (20049/20033)	Dual Carriageway	2	609	1347	58	42	M	M
A1261 West India Dock Road (20064/20049)	Dual Carriageway	2	1386	926	41	58	H	M
<i>Local Network</i>								
A102 Lower Lea Crossing (20164/20167)	Dual Carriageway	2	314	711	56	51	M	M
A102 Lower Lea Crossing (20166/20163)	Dual Carriageway	2	610	455	15	10	M	M
A102 Lower Lea Crossing (44034/44340)	Dual Carriageway	2	419	497	25	25	M	M
A102 Lower Lea Crossing (44340/44034)	Dual Carriageway	2	298	475	29	28	M	M

A112 Prince Regent Lane (44180/44039)	Single carriageway	1	256	173	18	20	M	M
A112 Prince Regent Lane (44039/44180)	Single carriageway	1	468	639	36	36	M	H
A124 Barking Road (44244/44031)	Single carriageway	1	351	496	5	7	M	M
A124 Barking Road (44244/44533)	Single carriageway	1	334	685	32	32	M	H
A206 Woolwich Road (22059/22091)	Single carriageway	1	592	698	18	23	M	H
A206 Woolwich Road (22091/22059)	Single carriageway	1	654	790	13	15	H	H
A206 Woolwich Road (22098/22109)	Single carriageway	1	562	488	34	34	M	M
A206 Woolwich Road (22109/22098)	Single carriageway	1	390	851	32	31	M	H
A206 Woolwich Road (22140/22544)	Single carriageway	1	574	617	32	33	M	H

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A206 Woolwich Road (22147/22157)	Single carriageway	1	567	520	34	34	M	M
A206 Woolwich Road (22157/22147)	Single carriageway	1	498	822	34	34	M	H
A206 Woolwich Road (22157/22161)	Single carriageway	1	508	538	14	14	M	M
A206 Woolwich Road (22161/22157)	Single carriageway	1	560	841	33	33	M	H
A206 Woolwich Road (22544/22140)	Single carriageway	1	606	858	36	36	H	H
A206 Woolwich Road (22544/22147)	Single carriageway	1	551	641	32	29	M	H
A207 Shooters Hill Road (22103/22093)	Single carriageway	1	664	660	14	9	H	H
A207 Shooters Hill Road (22103/22493)	Single carriageway	1	692	900	33	33	H	H
A207 Shooters Hill Road (22493/22103)	Single carriageway	1	712	671	30	32	H	H
A207 Shooters Hill Road (22493/22136)	Single	1	762	959	34	34	H	H

	carriageway							
A1011 Silvertown Way (44010/44520)	Single carriageway	1	458	389	13	14	M	M
A1011 Silvertown Way (44013/44520)	Single carriageway	1	232	487	12	11	M	M
A1011 Silvertown Way (44013/44522)	Single carriageway	1	890	758	14	18	H	H
A1011 Silvertown Way (44530/44013)	Single carriageway	1	271	528	28	29	M	M
B210 Charlton Road (22047/22042)	Single carriageway	1	358	118	41	43	M	M
B210 Charlton Road (22047/22081)	Single carriageway	1	254	367	43	42	M	M
B210 Charlton Road (22081/22047)	Single carriageway	1	599	309	31	34	M	M
B210 Charlton Road (22265/22266)	Single carriageway	1	768	1062	32	32	H	H
B210 Charlton Road (22266/22268)	Single	1	553	678	33	33	M	H

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	carriageway							
B210 Charlton Road (22267/22089)	Single carriageway	1	891	982	32	32	H	H
B210 Charlton Road (22276/22546)	Single carriageway	1	691	586	35	35	H	M
B210 Charlton Road (22501/22268)	Single carriageway	1	675	599	29	30	H	M
B210 Charlton Road (22546/22276)	Single carriageway	1	454	628	35	35	M	H
B210 Charlton Road (22613/22042)	Single carriageway	1	259	324	35	37	M	M
B212 Prince of Wales Road (22080/24612)	Single carriageway	1	112	194	8	7	M	M
B212 Prince of Wales Road (22616/24207)	Single carriageway	1	296	521	35	35	M	M
B212 Prince of Wales Road (24612/22616)	Single carriageway	1	296	521	36	36	M	M
Connaught Bridge (44037/44047)	Dual Carriageway	2	268	464	38	37	M	M

Connaught Bridge (44047/44037)	Dual Carriageway	2	312	325	38	38	M	M
Freemasons Road (44032/44042)	Single carriageway	1	104	175	28	28	M	M
Freemasons Road (44042/44032)	Single carriageway	1	166	241	14	10	M	M
Abbott Road (20197/20200)	Single carriageway	1	164	93	28	28	M	M
Abbott Road (20200/20197)	Single carriageway	1	356	204	28	28	M	M
Victoria Dock Road (44025/44032)	Single carriageway	1	384	342	21	26	M	M
Victoria Dock Road (44032/44039)	Single carriageway	1	518	464	25	30	M	M
Millennium Way (22313/22314)	Dual Carriageway	2	272	301	30	30	M	M
Millennium Way (22314/22313)	Dual Carriageway	2	162	289	30	30	M	M

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Bugsby's Way (22141/22510)	Dual Carriageway	2	115	183	20	18	M	M
Bugsby's Way (22145/22510)	Dual Carriageway	2	342	365	24	24	M	M
Bugsby's Way (22145/22588)	Dual Carriageway	2	176	402	32	28	M	M
Bugsby's Way (22510/22141)	Dual Carriageway	2	172	163	35	35	M	M
Bugsby's Way (22588/22145)	Dual Carriageway	2	363	401	36	36	M	M
Bugsby's Way (22510/22145)	Dual Carriageway	2	161	395	37	37	M	M
Blackwall Lane (22091/22104)	Single carriageway	1	440	544	36	36	M	M
Blackwall Lane (22106/22104)	Single carriageway	1	286	435	33	33	M	M
Blackwall Lane (22106/22107)	Single carriageway	1	526	558	9	12	M	M
Blackwall Lane (22130/22107)	Single	1	266	418	11	12	M	M

	carriageway							
Anchor and Hope Lane (22161/22162)	Single carriageway	1	652	727	24	25	H	H
Anchor and Hope Lane (22162/22161)	Single carriageway	1	353	805	33	32	M	H