

Appendix O: Sifting Analysis of Junctions to be Assessed

Sifting of Study area

Junction ref	Junction Name	Overview of Pass Fail											
		Run 10 vs run 11			Run 10 vs run 12			Run 10 vs run 13			Run 10 vs run 14		
		AM	IP	PM	AM	IP	PM	AM	IP	PM	AM	IP	PM
1	M62 J19	Assess	Assess	Assess	Exclude	Exclude	Exclude	Assess	Assess	Assess	Exclude	Exclude	Exclude
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	Assess	Assess	Assess	Exclude	Exclude	Exclude	Assess	Assess	Assess	Exclude	Exclude	Exclude
4	Hareshill Road / Hill Top Road	Assess	Assess	Assess	Exclude	Exclude	Assess	Assess	Assess	Assess	Assess	Exclude	Assess
5	Hareshill Road / Pilsworth Road	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess
6	Pilsworth Road / A58 Bury St	Assess	Assess	Exclude	Exclude	Exclude	Exclude	Assess	Assess	Exclude	Exclude	Exclude	Exclude
7	Pilsworth Road / Heywood Distribution Centre	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess
8	Pilsworth Road / JPA1.1 & SHDA employment	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess
11	M66 J3	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess	Assess
12	M66 J2	Assess	Assess	Exclude	Exclude	Exclude	Exclude	Assess	Assess	Exclude	Exclude	Assess	Exclude
13	Whittle Lane / A6045 Heywood Old Road	Assess	Assess	Exclude	Assess	Exclude	Exclude	Assess	Assess	Exclude	Exclude	Exclude	Exclude
14	A6045 Heywood Old Road / Langley Lane	Assess	Assess	Exclude	Exclude	Exclude	Exclude	Exclude	Assess	Assess	Exclude	Exclude	Exclude
15	Langley Lane / A6046 Hollin Lane	Assess	Exclude	Exclude	Exclude	Exclude	Exclude	Assess	Exclude	Assess	Exclude	Exclude	Exclude
16	A6045 Manchester Road / Coronation Avenue	Assess	Exclude	Exclude	Exclude	Exclude	Exclude	Assess	Assess	Exclude	Assess	Exclude	Exclude
17	Hollins Brow / Hollins Lane	Assess	Assess	Exclude	Assess	Assess	Assess	Assess	Assess	Exclude	Assess	Assess	Assess
18	Hollins Brow / A56 Manchester Road	Exclude	Exclude	Assess	Exclude	Exclude	Exclude	Exclude	Exclude	Assess	Exclude	Exclude	Exclude
19	M60 J18	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude
20	M62 J20	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Exclude	Assess	Exclude	Exclude
21	M60 J19	Assess	Assess	Exclude	Assess	Assess	Exclude	Assess	Assess	Exclude	Assess	Assess	Exclude
22	A576 Middleton Road / A6045 Heywood Old Road	Assess	Assess	Exclude	Assess	Assess	Exclude	Assess	Assess	Assess	Assess	Assess	Exclude
23	A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	Assess	Assess	Exclude	Assess	Assess	Exclude	Assess	Assess	Exclude	Assess	Assess	Exclude

Northern Gateway - JPA 1.1 - Sifting of Junctions for Assessment

Comparison between
Run 10
Run 11

Junction Ref		AM Peak																	Difference							Sift 1	Sift 2	Overall
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)			
1	M62 J19	1017	924	920	548	712	0	0	4121	1021	1066	964	750	785	0	0	4586	4	142	44	202	73	0	0	11%	Assess	Assess	Assess
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	529	883	531	561	0	0	0	2503	511	1303	581	672	0	0	0	3066	-18	420	50	111	0	0	0	22%	Assess	Assess	Assess
4	Hareshill Road / Hill Top Road	534	102	844	98	0	0	0	1578	675	111	1220	101	0	0	0	2107	141	9	376	3	0	0	0	34%	Assess	Assess	Assess
5	Hareshill Road / Pilsworth Road	594	609	718	0	0	0	0	1831	659	698	1140	0	0	0	0	2497	155	89	422	0	0	0	0	36%	Assess	Assess	Assess
6	Pilsworth Road / A58 Bury St	683	987	517	0	0	0	0	2186	682	1085	586	0	0	0	0	2352	-1	98	69	0	0	0	0	8%	Assess	Assess	Assess
7	Pilsworth Road / Heywood Distribution Centre	576	325	800	0	0	0	0	1701	683	333	1408	0	0	0	0	2423	107	7	607	0	0	0	0	42%	Assess	Assess	Assess
8	Pilsworth Road / JPA1.1 & SHDA employment	665	27	594	0	0	0	0	1286	1231	30	702	0	0	0	0	1963	566	3	108	0	0	0	0	53%	Assess	Assess	Assess
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	660	292	607	0	0	0	0	1559	1228	743	1528	18	0	0	0	3518	568	452	921	18	0	0	0	126%	Assess	Assess	Assess
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	804	516	267	0	0	0	0	1588	1053	1228	471	0	0	0	0	2752	249	712	204	0	0	0	0	73%	Assess	Assess	Assess
11	M66 J3	912	466	804	934	0	0	0	3116	1083	851	929	1207	0	0	0	4070	171	385	125	273	0	0	0	31%	Assess	Assess	Assess
12	M66 J2	1854	649	94	1267	1845	114	0	5823	2157	583	99	1334	1887	117	0	6177	303	-66	5	67	42	3	0	6.1%	Assess	Assess	Assess
13	Whittle Lane / A6045 Heywood Old Road	472	93	749	0	0	0	0	1314	575	86	878	0	0	0	0	1539	103	-8	130	0	0	0	0	17%	Assess	Assess	Assess
14	A6045 Heywood Old Road / Langley Lane	461	471	466	0	0	0	0	1399	560	525	443	0	0	0	0	1529	99	54	-23	0	0	0	0	9%	Assess	Assess	Assess
15	Langley Lane / A6046 Hollin Lane	994	176	685	0	0	0	0	1855	1103	206	655	0	0	0	0	1964	109	29	-30	0	0	0	0	5.8%	Assess	Assess	Assess
16	A6045 Manchester Road / Coronation Avenue	445	431	616	0	0	0	0	1492	477	445	694	0	0	0	0	1616	32	14	78	0	0	0	0	8%	Assess	Assess	Assess
17	Hollins Brow / Hollins Lane	807	268	764	0	0	0	0	1840	872	339	836	0	0	0	0	2048	65	71	72	0	0	0	0	11%	Assess	Assess	Assess
18	Hollins Brow / A56 Manchester Road	1228	540	1104	0	0	0	0	2872	1268	546	1178	0	0	0	0	2992	41	7	73	0	0	0	0	4%	Assess	Exclude	Exclude
19	M60 J18	5503	6543	4703	8826	0	0	0	25575	5688	6545	4997	8829	0	0	0	26059	185	2	294	3	0	0	0	2%	Assess	Exclude	Exclude
20	M62 J20	2076	6080	2804	7323	0	0	0	18283	2173	6226	2947	7402	0	0	0	18748	97	146	143	79	0	0	0	3%	Assess	Exclude	Exclude
21	M60 J19	1528	1121	870	1432	0	0	0	4951	1592	1188	871	1619	0	0	0	5270	64	67	1	187	0	0	0	6%	Assess	Assess	Assess
22	A576 Middleton Road / A6045 Heywood Old Road	528	699	23	1108	0	0	0	2359	527	766	24	1237	0	0	0	2555	-1	67	1	129	0	0	0	8%	Assess	Assess	Assess
23	A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	980	1009	2576	0	0	0	0	4565	1154	1111	2569	0	0	0	0	4834	174	101	-7	0	0	0	0	6%	Assess	Assess	Assess

Junction Ref		Inter Peak																	Difference							Sift 1	Sift 2	Overall
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)			
1	M62 J19	801	506	824	601	440	0	0	3172	793	752	872	659	750	0	0	3826	-8	246	48	58	310	0	0	21%	Assess	Assess	Assess
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	341	591	525	424	0	0	0	1880	337	890	663	638	0	0	0	2527	-4	299	138	214	0	0	0	34%	Assess	Assess	Assess
4	Hareshill Road / Hill Top Road	373	133	575	153	0	0	0	1234	598	139	821	154	0	0	0	1712	225	6	246	1	0	0	0	39%	Assess	Assess	Assess
5	Hareshill Road / Pilsworth Road	488	355	553	0	0	0	0	1396	771	442	814	0	0	0	0	2027	282	88	261	0	0	0	0	45%	Assess	Assess	Assess
6	Pilsworth Road / A58 Bury St	616	766	433	0	0	0	0	1816	678	813	494	0	0	0	0	1984	62	47	60	0	0	0	0	9%	Assess	Assess	Assess
7	Pilsworth Road / Heywood Distribution Centre	419	411	569	0	0	0	0	1399	679	416	925	0	0	0	0	2020	260	5	357	0	0	0	0	44%	Assess	Assess	Assess
8	Pilsworth Road / JPA1.1 & SHDA employment	518	42	427	0	0	0	0	987	854	43	689	0	0	0	0	1586	337	1	262	0	0	0	0	61%	Assess	Assess	Assess
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	530	218	507	0	0	0	0	1255	868	1211	1007	31	0	0	0	3117	339	993	499	31	0	0	0	148%	Assess	Assess	Assess
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	654	465	180	0	0	0	0	1299	1283	968	191	0	0	0	0	2352	739	503	11	0	0	0	0	96%	Assess	Assess	Assess
11	M66 J3	1062	376	546	639	0	0	0	2623	1063	570	1055	782	0	0	0	3470	1	194	509	145	0	0	0	32%	Assess	Assess	Assess
12	M66 J2	1825	483	144	827	1546	153	0	4978	1959	417	148	968	1635	156	0	5283	134	-66	4	141	89	3	0	6%	Assess	Assess	Assess
13	Whittle Lane / A6045 Heywood Old Road	527	118	451	0	0	0	0	1096	583	309	487	0	0	0	0	1380	56	191	36	0	0	0	0	26%	Assess	Assess	Assess
14	A6045 Heywood Old Road / Langley Lane	288	277	592	0	0	0	0	1157	361	253	733	0	0	0	0	1347	73	-24	142	0	0	0	0	16%	Assess	Assess	Assess
15	Langley Lane / A6046 Hollin Lane	965	97	607	0	0	0	0	1689	1001	119	641	0	0	0	0	1761	16	22	34	0	0	0	0	4%	Exclude	Exclude	Exclude
16	A6045 Manchester Road / Coronation Avenue	386	274	535	0	0	0	0	1195	385	298	545	0	0	0	0	1228	0	24	9	0	0	0	0	3%	Exclude	Exclude	Exclude
17	Hollins Brow / Hollins Lane	681	229	670	0	0	0	0	1580	773	240	662	0	0	0	0	1676	92	12	-8	0	0	0	0	6%	Assess	Assess	Assess
18	Hollins Brow / A56 Manchester Road	1109	552	935	0	0	0	0	2597	1115	566	1006	0	0	0	0	2688	6	14	71	0	0	0	0	4%	Assess	Exclude	Exclude
19	M60 J18	3966	6340	3789	8554	0	0	0	22649	4173	6346	3921	8567	0	0	0	23007	207	5	132	13	0	0	0	2%	Assess	Exclude	Exclude
20	M62 J20	1649	5944	1948	6962	0	0	0	16403	1697	6070	1857	7151	0	0	0	16775	48	126	9	189	0	0	0	2%	Assess	Exclude	Exclude
21	M60 J19	1038	815	923	1664	0	0	0	4440	1124	924	941	1746	0	0	0	4735	86	109	18	82	0	0	0	7%	Assess	Assess	Assess
22	A576 Middleton Road / A6045 Heywood Old Road	370	659	19	1172	0	0	0	2220	404	719	19	1282	0	0	0	2425	34	60	0	110	0	0	0	9%	Assess	Assess	Assess
23	A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	931	951	2034	0	0	0	0	3916	1040	973	2195	0	0	0	0	4208	109	22	161	0	0	0	0	7%	Assess	Assess	Assess

Junction Ref		PM Peak																									Difference							Sift 1	Sift 2	Overall
		Do Minimum							Do Something																											
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6		Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	% increase										
1	M62 J19	850	740	828	793	459	0	0	3670	852	824	891	847	801	0	0	4215	2	84	63	54	342	0	0	15%	Assess	Assess	Assess								
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	387	750	720	445	0	0	0	2302	378	898	909	650	0	0	0	2836	-9	148	190	205	0	0	0	23%	Assess	Assess	Assess								
4	Hareshill Road / Hill Top Road	371	148	534	198	0	0	0	1251	640	148	663	199	0	0	0	1650	269	0	129	1	0	0	0	32%	Assess	Assess	Assess								
5	Hareshill Road / Pilsworth Road	562	388	626	0	0	0	0	1577	861	411	815	0	0	0	0	2088	299	23	189	0	0	0	0	32%	Assess	Assess	Assess								
6	Pilsworth Road / A58 Bury St	639	895	513	0	0	0	0	2047	655	899	520	0	0	0	0	2078	16	4	6	0	0	0	0	3%	Exclude	Exclude	Exclude								
7	Pilsworth Road / Heywood Distribution Centre	639	895	563	0	0	0	0	2047	1387	758	358	794	0	0	0	1932	299	2	233	0	0	0	0	38%	Assess	Assess	Assess								
8	Pilsworth Road / JPA1.1 & SHD employment	613	42	461	0	0	0	0	1116	837	43	757	0	0	0	0	1636	224	1	295	0	0	0	0	47%	Assess	Assess	Assess								
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	631	250	552	0	0	0	0	1434	856	1381	748	19	0	0	0	3004	225	1131	196	19	0	0	0	110%	Assess	Assess	Assess								
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	778	508	245	0	0	0	0	1532	1735	892	167	0	0	0	0	2794	957	384	-78	0	0	0	0	82%	Assess	Assess	Assess								
11	M66 J3	1182	337	598	716	0	0	0	2833	1135	471	1349	854	0	0	0	3809	-47	134	751	138	0	0	0	34%	Assess	Assess	Assess								
12	M66 J2	2169	522	134	1062	1785	235	0	5907	2137	464	135	1180	1817	236	0	5969	-32	-58	1	118	32	1	0	1%	Assess	Exclude	Exclude								
13	Whitlie Lane / A6045 Heywood Old Road	823	194	561	0	0	0	0	1578	763	396	432	0	0	0	0	1589	-60	202	-129	0	0	0	0	1%	Assess	Exclude	Exclude								
14	A6045 Heywood Old Road / Langley Lane	325	927	1637	381	0	0	0	1637	381	1338	1041	0	0	0	0	1660	-1	-88	11	0	0	0	0	1%	Exclude	Exclude	Exclude								
15	Langley Lane / A6046 Hollin Lane	1048	114	767	0	0	0	0	1929	1035	101	815	0	0	0	0	1951	-12	-13	48	0	0	0	0	1%	Exclude	Exclude	Exclude								
16	A6045 Manchester Road / Coronation Avenue	406	418	630	0	0	0	0	1454	397	417	654	0	0	0	0	1469	-8	0	24	0	0	0	0	1%	Exclude	Exclude	Exclude								
17	Hollins Brow / Hollins Lane	855	184	703	0	0	0	0	1742	972	222	618	0	0	0	0	1812	117	38	-86	0	0	0	0	4%	Assess	Exclude	Exclude								
18	Hollins Brow / A56 Manchester Road	1241	592	1010	0	0	0	0	2843	1344	615	1062	0	0	0	0	3022	103	23	52	0	0	0	0	6%	Assess	Assess	Assess								
19	M60 J18	4871	6525	5110	9018	0	0	0	25524	5036	6530	5236	9158	0	0	0	25960	165	5	126	140	0	0	0	2%	Assess	Exclude	Exclude								
20	M62 J20	2235	5736	3079	6879	0	0	0	17929	2267	5261	3334	7168	0	0	0	18304	31	25	29	289	0	0	0	2%	Assess	Exclude	Exclude								
21	M60 J19	1487	964	933	2510	0	0	0	5894	1568	1051	881	2549	0	0	0	6049	81	87	-52	39	0	0	0	2%	Assess	Exclude	Exclude								
22	A576 Middleton Road / A6045 Heywood Old Road	453	755	15	1590	0	0	0	2813	494	801	15	1596	0	0	0	2816	42	46	1	5	0	0	0	3%	Exclude	Exclude	Exclude								
23	A58 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	1106	1095	2380	0	0	0	0	4581	1093	1074	2567	0	0	0	0	4733	-13	-21	187	0	0	0	0	3%	Assess	Exclude	Exclude								

Northern Gateway - JPA 1.1 - Sifting of Junctions for Assessment

Comparison between
Run 10
Run 12

Junction Ref		AM Peak														Difference							Shift 1	Shift 2	Overall			
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	% increase										
1	M62 J19	1017	924	920	548	712	0	0	4121	1002	897	891	254	0	598	0	3642	-15	-27	-29	-294	598	0	0	-12%	Assess	Exclude	Exclude
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	529	883	531	561	0	0	0	2503	495	777	594	513	0	0	0	2379	-34	-106	63	-48	0	0	0	-5%	Assess	Exclude	Exclude
4	Hareshill Road / Hill Top Road	534	102	844	98	0	0	0	1578	568	111	858	102	0	0	0	1639	34	9	14	4	0	0	0	4%	Exclude	Exclude	Exclude
5	Hareshill Road / Pilsworth Road	504	609	718	0	0	0	0	1831	575	738	792	0	0	0	0	2105	71	129	74	0	0	0	0	15%	Assess	Assess	Assess
6	Pilsworth Road / AS8 Bury St	683	987	517	0	0	0	0	2186	655	1058	530	0	0	0	0	2243	-28	71	13	0	0	0	0	3%	Assess	Exclude	Exclude
7	Pilsworth Road / Heywood Distribution Centre	576	325	800	0	0	0	0	1701	713	333	1029	0	0	0	0	2074	137	7	229	0	0	0	0	22%	Assess	Assess	Assess
8	Pilsworth Road / JPA1.1 & SHDA employment	665	27	594	0	0	0	0	1286	966	30	731	0	0	0	0	1727	301	3	138	0	0	0	0	34%	Assess	Assess	Assess
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	660	292	607	0	0	0	0	1559	964	441	1550	18	0	0	0	2973	303	149	943	18	0	0	0	91%	Assess	Assess	Assess
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	804	516	267	0	0	0	0	1588	1105	1284	525	0	0	0	0	2914	301	768	258	0	0	0	0	84%	Assess	Assess	Assess
11	M66 J3	912	466	804	934	0	0	0	3116	1141	721	1056	1148	0	0	0	4066	229	255	252	214	0	0	0	30%	Assess	Assess	Assess
12	M66 J2	1854	649	94	1267	1845	114	0	5823	2091	555	98	1300	1855	117	0	6016	237	-94	4	33	10	3	0	3.3%	Assess	Exclude	Exclude
13	Whittle Lane / A6045 Heywood Old Road	472	93	749	0	0	0	0	1314	619	28	751	0	0	0	0	1398	147	-65	3	0	0	0	0	6%	Assess	Assess	Assess
14	A6045 Heywood Old Road / Langley Lane	461	471	466	0	0	0	0	1399	476	487	503	0	0	0	0	1466	14	16	37	0	0	0	0	5%	Exclude	Exclude	Exclude
15	Langley Lane / A6046 Hollin Lane	994	176	685	0	0	0	0	1855	988	165	685	0	0	0	0	1838	-6	-11	0	0	0	0	0	-1%	Exclude	Exclude	Exclude
16	A6045 Manchester Road / Coronation Avenue	445	431	616	0	0	0	0	1492	459	404	687	0	0	0	0	1550	13	-27	71	0	0	0	0	4%	Assess	Exclude	Exclude
17	Hollins Brow / Hollins Lane	807	268	764	0	0	0	0	1840	883	322	865	0	0	0	0	2070	76	54	101	0	0	0	0	13%	Assess	Assess	Assess
18	Hollins Brow / AS6 Manchester Road	1228	540	1104	0	0	0	0	2872	1305	542	1124	0	0	0	0	2971	77	2	20	0	0	0	0	3%	Assess	Exclude	Exclude
19	M60 J18	5503	6543	4703	8826	0	0	0	25575	5532	6379	4979	8815	0	0	0	25705	29	-164	276	-11	0	0	0	1%	Assess	Exclude	Exclude
20	M62 J20	2076	6080	2804	7323	0	0	0	18283	2238	6333	3046	7465	0	0	0	19082	162	253	242	142	0	0	0	4%	Assess	Exclude	Exclude
21	M60 J19	1528	1121	870	1432	0	0	0	4951	1638	1204	854	1649	0	0	0	5345	110	83	-16	217	0	0	0	8%	Assess	Assess	Assess
22	AS76 Middleton Road / A6045 Heywood Old Road	528	699	23	1108	0	0	0	2359	533	776	24	1316	0	0	0	2649	4	76	1	208	0	0	0	12%	Assess	Assess	Assess
23	AS8 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	980	1009	2576	0	0	0	0	4565	1120	1092	2610	0	0	0	0	4823	141	83	34	0	0	0	0	6%	Assess	Assess	Assess

Junction Ref		Inter Peak														Difference										Sift 1	Sift 2	Overall
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)			
1	M62 J19	801	506	824	601	440	0	0	3172	805	507	826	384	0	429	0	2951	4	1	2	-217	-440	429	0	-7%	Assess	Exclude	Exclude
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	341	591	525	424	0	0	0	1880	339	480	595	451	0	0	0	1865	-2	-111	71	27	0	0	0	-1%	Assess	Exclude	Exclude
4	Hareshill Road / Hill Top Road	373	133	575	153	0	0	0	1234	474	140	471	154	0	0	0	1239	101	7	-104	1	0	0	0	0%	Assess	Exclude	Exclude
5	Hareshill Road / Pilsworth Road	488	355	553	0	0	0	0	1396	660	404	522	0	0	0	0	1586	172	50	-31	0	0	0	0	14%	Assess	Assess	Assess
6	Pilsworth Road / AS8 Bury St	616	766	433	0	0	0	0	1816	619	787	478	0	0	0	0	1884	3	20	45	0	0	0	0	4%	Exclude	Exclude	Exclude
7	Pilsworth Road / Heywood Distribution Centre	419	411	569	0	0	0	0	1399	701	416	595	0	0	0	0	1713	283	5	26	0	0	0	0	22%	Assess	Assess	Assess
8	Pilsworth Road / JPA1.1 & SHDA employment	518	42	427	0	0	0	0	987	657	43	710	0	0	0	0	1410	140	1	283	0	0	0	0	43%	Assess	Assess	Assess
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	530	218	507	0	0	0	0	1255	669	694	1120	31	0	0	0	2514	140	476	612	31	0	0	0	100%	Assess	Assess	Assess
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	654	465	180	0	0	0	0	1299	1142	1044	232	0	0	0	0	2418	488	579	52	0	0	0	0	86%	Assess	Assess	Assess
11	M66 J3	1062	376	546	639	0	0	0	2623	1105	607	968	751	0	0	0	3326	43	226	322	112	0	0	0	27%	Assess	Assess	Assess
12	M66 J2	1825	483	144	827	1546	153	0	4978	1949	424	148	955	1586	157	0	5219	124	-59	4	128	40	4	0	5%	Assess	Exclude	Exclude
13	Whittle Lane / A6045 Heywood Old Road	527	118	451	0	0	0	0	1096	609	102	394	0	0	0	0	1105	82	-16	-57	0	0	0	0	1%	Assess	Exclude	Exclude
14	A6045 Heywood Old Road / Langley Lane	288	277	592	0	0	0	0	1157	277	234	654	0	0	0	0	1165	-11	-43	63	0	0	0	0	1%	Assess	Exclude	Exclude
15	Langley Lane / A6046 Hollin Lane	985	97	607	0	0	0	0	1689	936	107	648	0	0	0	0	1692	-49	10	41	0	0	0	0	0%	Exclude	Exclude	Exclude
16	A6045 Manchester Road / Coronation Avenue	386	274	535	0	0	0	0	1195	399	277	586	0	0	0	0	1262	13	3	51	0	0	0	0	6%	Exclude	Assess	Exclude
17	Hollins Brow / Hollins Lane	681	229	670	0	0	0	0	1580	764	245	689	0	0	0	0	1698	83	16	19	0	0	0	0	8%	Assess	Assess	Assess
18	Hollins Brow / AS6 Manchester Road	1109	552	935	0	0	0	0	2597	1140	566	977	0	0	0	0	2683	31	14	41	0	0	0	0	3%	Exclude	Exclude	Exclude
19	M60 J18	3966	6340	3789	8554	0	0	0	22649	3814	6446	3897	8568	0	0	0	22725	-152	106	108	14	0	0	0	0%	Assess	Exclude	Exclude
20	M62 J20	1649	5944	1948	6962	0	0	0	16403	1705	6081	1856	7188	0	0	0	16830	56	137	8	226	0	0	0	3%	Assess	Exclude	Exclude
21	M60 J19	1038	815	923	1664	0	0	0	4440	1111	866	960	1727	0	0	0	4664	73	51	37	63	0	0	0	5%	Assess	Assess	Assess
22	AS76 Middleton Road / A6045 Heywood Old Road	370	659	19	1172	0	0	0	2220	355	714	19	1313	0	0	0	2402	-15	55	0	141	0	0	0	8%	Assess	Assess	Assess
23	AS8 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	931	951	2034	0	0	0	0	3916	1034	976	2208	0	0	0	0	4217	102	25	174	0	0	0	0	8%	Assess	Assess	Assess

Junction Ref		PM Peak														Do Something														Difference							Sift 1	Sift 2	Overall
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)														
1	M62 J19	850	740	828	793	459	0	0	3670	833	804	791	433	0	519	0	3380	-17	64	-37	-360	-459	519	0	-8%	Assess	Exclude	Exclude											
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	387	750	720	445	0	0	0	2302	413	600	783	529	0	0	0	2325	26	-150	64	83	0	0	0	1%	Assess	Exclude	Exclude											
4	Hareshill Road / Hill Top Road	371	148	534	198	0	0	0	1251	529	148	441	199	0	0	0	1317	158	0	-93	1	0	0	0	5%	Assess	Assess	Assess											
5	Hareshill Road / Pilsworth Road	562	388	626	0	0	0	0	1577	771	409	610	0	0	0	0	1790	209	20	-16	0	0	0	0	14%	Assess	Assess	Assess											
6	Pilsworth Road / AS8 Bury St	639	895	513	0	0	0	0	2047	649	986	515	0	0	0	0	2062	10	4	2	0	0	0	0	1%	Exclude	Exclude	Exclude											
7	Pilsworth Road / Heywood Distribution Centre	357	563	563	0	0	0	0	1387	145	359	591	0	0	0	0	1695	278	0	0	0	0	0	0	22%	Assess	Assess	Assess											
8	Pilsworth Road / JP41.1 & SHDA employment	613	42	461	0	0	0	0	1116	710	43	742	0	0	0	0	1494	97	1	281	0	0	0	0	34%	Assess	Assess	Assess											
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	631	250	552	0	0	0	0	1434	729	917	1033	19	0	0	0	2698	98	667	481	19	0	0	0	88%	Assess	Assess	Assess											
	Fowler Junction (Pilsworth Road / Moss Hall Road - North)	778	508	245	0	0	0	0	1532	1449	1097	226	0	0	0	0	2772	671	589	-19	0	0	0	0	81%	Assess	Assess	Assess											
11	M66 J3	1182	337	598	716	0	0	0	2833	1271	587	1085	796	0	0	0	3739	89	250	-487	80	0	0	0	32%	Assess	Assess	Assess											
12	M66 J2	2169	522	134	1062	1785	235	0	5907	2163	462	134	1164	1814	236	0	5973	-6	-60	0	102	29	1	0	1%	Assess	Exclude	Exclude											
13	Whinley Lane / A6045 Heywood Old Road	823	194	561	0	0	0	0	1578	840	168	463	0	0	0	0	1871	117	-26	-768	0	0	0	0	7%	Exclude	Exclude	Exclude											
14	A6045 Heywood Old Road / Langley Lane	384	325	927	0	0	0	0	1631	339	255	975	0	0	0	0	1569	-43	-77	48	0	0	0	0	-4%	Exclude	Exclude	Exclude											
15	Langley Lane / A6046 Hollin Lane	1048	114	767	0	0	0	0	1929	943	107	857	0	0	0	0	1906	-105	-7	89	0	0	0	0	-1%	Assess	Exclude	Exclude											
16	A6045 Manchester Road / Coronation Avenue	406	418	630	0	0	0	0	1454	440	357	680	0	0	0	0	1477	35	-61	50	0	0	0	0	2%	Assess	Exclude	Exclude											
17	Hollins Brow / Hollins Lane	855	184	703	0	0	0	0	1742	960	222	737	0	0	0	0	1919	105	38	34	0	0	0	0	10%	Assess	Assess	Assess											
18	Hollins Brow / A56 Manchester Road	1241	592	1010	0	0	0	0	2843	1310	610	1026	0	0	0	0	2946	69	18	16	0	0	0	0	4%	Assess	Exclude	Assess											
19	M60 J18	4871	6525	5110	9018	0	0	0	25224	4635	6735	5200	8992	0	0	0	25562	-238	210	90	-26	0	0	0	0	0%	Assess	Exclude	Exclude										
20	M62 J20	2235	5736	3079	6879	0	0	0	21929	2065	5087	1121	7167	0	0	0	18340	30	51	42	288	0	0	0	2%	Assess	Exclude	Exclude											
21	M60 J19	1487	964	933	2510	0	0	0	5894	1622	979	890	2505	0	0	0	5996	135	15	-43	-5	0	0	0	2%	Assess	Exclude	Exclude											
22	A576 Middleton Road / A6045 Heywood Old Road	453	755	15	1590	0	0	0	2813	435	778	15	1700	0	0	0	2929	-18	23	1	110	0	0	0	4%	Assess	Exclude	Exclude											
23	A56 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	1106	1095	2380	0	0	0	0	4581	1117	1076	2550	0	0	0	0	4743	-11	29	170	0	0	0	0	4%	Assess	Exclude	Exclude											

Northern Gateway - JPA 1.1 - Sifting of Junctions for Assessment

Comparison between
Run 10
Run 13

Junction Ref		AM Peak														Difference							Sift 1	Sift 2	Overall			
		Do Minimum							Do Something																			
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)			
1	M62 J19	1017	924	920	548	712	0	0	4121	1033	1074	967	796	856	0	0	4126	15	150	47	248	144	0	0	15%	Assess	Assess	Assess
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	529	883	531	561	0	0	0	2503	500	1328	616	663	0	0	0	3108	-28	445	86	102	0	0	0	24%	Assess	Assess	Assess
4	Hareshill Road / Hill Top Road	534	102	844	98	0	0	0	1578	663	111	1240	102	0	0	0	2116	129	9	396	4	0	0	0	34%	Assess	Assess	Assess
5	Hareshill Road / Pilsworth Road	504	609	718	0	0	0	0	1831	658	701	1156	0	0	0	0	2515	154	92	438	0	0	0	0	37%	Assess	Assess	Assess
6	Pilsworth Road / AS8 Bury St	683	987	517	0	0	0	0	2186	682	1097	589	0	0	0	0	2368	-1	110	72	0	0	0	0	8%	Assess	Assess	Assess
7	Pilsworth Road / Heywood Distribution Centre	576	325	800	0	0	0	0	1701	681	333	1413	0	0	0	0	2427	105	8	613	0	0	0	0	43%	Assess	Assess	Assess
8	Pilsworth Road / JPA1.1 & SHDA employment	665	27	594	0	0	0	0	1286	1234	30	699	0	0	0	0	1963	568	3	105	0	0	0	0	53%	Assess	Assess	Assess
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	660	292	607	0	0	0	0	1559	1229	775	1535	18	0	0	0	3557	569	483	928	18	0	0	0	128%	Assess	Assess	Assess
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	804	516	267	0	0	0	0	1588	1079	1234	490	0	0	0	0	2803	275	718	223	0	0	0	0	77%	Assess	Assess	Assess
11	M66 J3	912	466	804	934	0	0	0	3116	1088	843	965	1216	0	0	0	4112	176	377	161	282	0	0	0	32%	Assess	Assess	Assess
12	M66 J2	1854	649	94	1267	1845	114	0	5823	2162	579	99	1345	1895	117	0	6197	308	-70	5	78	50	3	0	6%	Assess	Assess	Assess
13	Whittle Lane / A6045 Heywood Old Road	472	93	749	0	0	0	0	1314	637	58	741	0	0	0	0	1435	165	-35	-8	0	0	0	0	9%	Assess	Assess	Assess
14	A6045 Heywood Old Road / Langley Lane	461	471	466	0	0	0	0	1399	468	507	485	0	0	0	0	1460	7	35	19	0	0	0	0	4%	Exclude	Exclude	Exclude
15	Langley Lane / A6046 Hollin Lane	994	176	685	0	0	0	0	1855	1136	212	685	0	0	0	0	2033	142	36	1	0	0	0	0	9.6%	Assess	Assess	Assess
16	A6045 Manchester Road / Coronation Avenue	445	431	616	0	0	0	0	1492	490	448	736	0	0	0	0	1674	45	16	120	0	0	0	0	12%	Assess	Assess	Assess
17	Hollins Brow / Hollins Lane	807	268	764	0	0	0	0	1840	881	343	838	0	0	0	0	2062	73	75	75	0	0	0	0	12%	Assess	Assess	Assess
18	Hollins Brow / AS6 Manchester Road	1228	540	1104	0	0	0	0	2872	1269	547	1196	0	0	0	0	3012	42	7	91	0	0	0	0	5%	Assess	Exclude	Exclude
19	M60 J18	5503	6543	4703	8826	0	0	0	25575	5746	6645	5127	8839	0	0	0	26357	243	102	424	13	0	0	0	3%	Assess	Exclude	Exclude
20	M62 J20	2076	6080	2804	7323	0	0	0	18283	2171	6240	2983	7469	0	0	0	18863	95	160	179	146	0	0	0	3.17%	Assess	Exclude	Exclude
21	M60 J19	1528	1121	870	1432	0	0	0	4951	1652	1265	836	1594	0	0	0	5347	124	144	-34	162	0	0	0	8%	Assess	Assess	Assess
22	AS76 Middleton Road / A6045 Heywood Old Road	528	699	23	1108	0	0	0	2359	599	792	25	1185	0	0	0	2802	71	93	2	77	0	0	0	10%	Assess	Assess	Assess
23	AS8 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	980	1009	2576	0	0	0	0	4565	1158	1113	2571	0	0	0	0	4841	178	103	-5	0	0	0	0	6%	Assess	Assess	Assess

Junction Ref		Do Minimum														Inter Peak						Do Something						Difference														Shift 1	Shift 2	Overall
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)																			
1	M62 J19	801	506	824	601	440	0	0	3172	820	778	888	684	755	0	0	3925	19	272	64	83	315	0	0	24%	Assess	Assess	Assess																
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	341	591	525	424	0	0	0	1880	309	924	680	648	0	0	0	2560	-32	334	155	224	0	0	0	36%	Assess	Assess	Assess																
4	Hareshill Road / Hill Top Road	373	133	575	153	0	0	0	1234	608	139	807	154	0	0	0	1708	235	6	232	1	0	0	0	38%	Assess	Assess	Assess																
5	Hareshill Road / Pilsworth Road	488	355	553	0	0	0	0	1396	773	449	802	0	0	0	0	2024	285	94	249	0	0	0	0	45%	Assess	Assess	Assess																
6	Pilsworth Road / AS8 Bury St	616	766	433	0	0	0	0	1816	681	816	491	0	0	0	0	1988	65	50	58	0	0	0	0	10%	Assess	Assess	Assess																
7	Pilsworth Road / Heywood Distribution Centre	419	411	569	0	0	0	0	1399	679	419	927	0	0	0	0	2025	261	7	359	0	0	0	0	45%	Assess	Assess	Assess																
8	Pilsworth Road / JPA1.1 & SHDA employment	518	42	427	0	0	0	0	987	857	43	690	0	0	0	0	1590	339	1	263	0	0	0	0	61%	Assess	Assess	Assess																
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	530	218	507	0	0	0	0	1255	871	1213	1018	31	0	0	0	3133	341	995	511	31	0	0	0	150%	Assess	Assess	Assess																
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	654	465	180	0	0	0	0	1299	1398	977	194	0	0	0	0	2569	744	512	14	0	0	0	0	98%	Assess	Assess	Assess																
11	M66 J3	1062	376	546	639	0	0	0	2623	1068	570	1060	794	0	0	0	3492	6	194	514	155	0	0	0	33%	Assess	Assess	Assess																
12	M66 J2	1825	483	144	827	1546	153	0	4978	1963	421	148	975	1636	157	0	5300	138	-62	4	148	90	4	0	6%	Assess	Assess	Assess																
13	Whittle Lane / A6045 Heywood Old Road	527	118	451	0	0	0	0	1096	576	314	506	0	0	0	0	1314	49	196	55	0	0	0	0	27%	Assess	Assess	Assess																
14	A6045 Heywood Old Road / Langley Lane	288	277	592	0	0	0	0	1157	362	273	744	0	0	0	0	1379	74	-4	152	0	0	0	0	19%	Assess	Assess	Assess																
15	Langley Lane / A6046 Hollin Lane	985	97	607	0	0	0	0	1689	1036	115	653	0	0	0	0	1804	51	18	46	0	0	0	0	7%	Exclude	Assess	Exclude																
16	A6045 Manchester Road / Coronation Avenue	386	274	535	0	0	0	0	1195	381	366	580	0	0	0	0	1327	-4	92	45	0	0	0	0	11%	Assess	Assess	Assess																
17	Hollins Brow / Hollins Lane	681	229	670	0	0	0	0	1580	776	241	666	0	0	0	0	1683	95	12	-4	0	0	0	0	7%	Assess	Assess	Assess																
18	Hollins Brow / A56 Manchester Road	1109	552	935	0	0	0	0	2597	1118	567	1010	0	0	0	0	2695	9	15	75	0	0	0	0	4%	Assess	Exclude	Exclude																
19	M60 J18	3966	6340	3789	8554	0	0	0	22649	4191	6394	3945	8572	0	0	0	23102	225	54	156	18	0	0	0	2%	Assess	Exclude	Exclude																
20	M62 J20	1649	5944	1948	6962	0	0	0	16403	1709	6091	1860	7164	12	0	0	16824	60	147	12	202	0	0	0	3%	Assess	Exclude	Exclude																
21	M60 J19	1038	815	923	1664	0	0	0	4440	1150	978	946	1750	0	0	0	4824	112	163	23	86	0	0	0	9%	Assess	Assess	Assess																
22	AS76 Middleton Road / A6045 Heywood Old Road	370	659	19	1172	0	0	0	2220	484	727	20	1339	0	0	0	2571	114	69	1	167	0	0	0	16%	Assess	Assess	Assess																
23	AS8 Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	931	951	2034	0	0	0	0	3916	1041	975	2197	0	0	0	0	4212	110	24	163	0	0	0	0	8%	Assess	Assess	Assess																

Junction Ref		PM Peak														Difference							Sift 1	Sift 2	Overall			
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	% increase										
1	M62 J19	850	740	828	793	459	0	0	3670	877	860	921	896	817	0	0	4371	27	120	93	103	358	0	0	19%	Assess	Assess	Assess
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	387	750	720	445	0	0	0	2302	364	960	916	648	0	0	0	2888	-23	210	197	202	0	0	0	25%	Assess	Assess	Assess
4	Hareshill Road / Hill Top Road	371	148	534	198	0	0	0	1251	636	149	660	201	0	0	0	1646	265	1	126	3	0	0	0	32%	Assess	Assess	Assess
5	Hareshill Road / Pilsworth Road	562	388	626	0	0	0	0	1577	864	421	821	0	0	0	0	2105	302	32	194	0	0	0	0	34%	Assess	Assess	Assess
6	Pilsworth Road / AS8 Bury St	639	895	513	0	0	0	0	2047	665	940	522	0	0	0	0	2097	26	15	9	0	0	0	0	2%	Exclude	Exclude	Exclude
7	Pilsworth Road / Heywood Distribution Centre	639	895	563	0	0	0	0	1387	158	361	806	0	243	0	0	1936	293	5	242	0	0	0	0	38%	Assess	Assess	Assess
8	Pilsworth Road / JPA1.1 & SHD employment	613	42	461	0	0	0	0	1116	847	45	757	0	0	0	0	1649	234	3	256	0	0	0	0	48%	Assess	Assess	Assess
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	631	250	552	0	0	0	0	1434	868	1392	756	20	0	0	0	3036	237	1142	203	20	0	0	0	112%	Assess	Assess	Assess
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	778	508	245	0	0	0	0	1532	1762	905	167	0	0	0	0	2834	984	397	-78	0	0	0	0	85%	Assess	Assess	Assess
11	M66 J3	1182	337	598	716	0	0	0	2833	1130	471	1384	863	0	0	0	3848	-52	134	786	147	0	0	0	36%	Assess	Assess	Assess
12	M66 J2	2169	522	134	1062	1785	235	0	5907	2143	470	316	1202	1829	237	0	6017	-26	-52	2	140	44	2	0	2%	Assess	Exclude	Exclude
13	Whitlie Lane / A6045 Heywood Old Road	823	194	561	0	0	0	0	1578	718	398	510	0	0	0	0	1627	-105	204	-50	0	0	0	0	3%	Assess	Exclude	Exclude
14	A6045 Heywood Old Road / Langley Lane	823	194	927	0	0	0	0	1637	427	302	1012	0	0	0	0	1742	412	-217	80	0	0	0	0	6%	Assess	Assess	Assess
15	Langley Lane / A6046 Hollin Lane	1048	114	767	0	0	0	0	1929	1124	97	817	0	0	0	0	2039	77	-17	50	0	0	0	0	6%	Assess	Assess	Assess
16	A6045 Manchester Road / Coronation Avenue	406	418	630	0	0	0	0	1454	380	420	641	0	0	0	0	1441	-25	2	11	0	0	0	0	-1%	Exclude	Exclude	Exclude
17	Hollins Brow / Hollins Lane	855	184	703	0	0	0	0	1742	974	222	611	0	0	0	0	1807	119	38	-92	0	0	0	0	4%	Assess	Exclude	Exclude
18	Hollins Brow / A56 Manchester Road	1241	592	1010	0	0	0	0	2843	1344	617	1068	0	0	0	0	3029	104	25	57	0	0	0	0	7%	Assess	Assess	Assess
19	M60 J18	4871	6525	5110	9018	0	0	0	25224	5129	6683	5233	9251	0	0	0	26396	258	158	123	233	0	0	0	3%	Assess	Exclude	Exclude
20	M62 J20	2235	5736	3079	6879	0	0	0	17929	2277	9494	3319	7200	0	0	0	18420	42	68	60	321	0	0	0	3%	Assess	Exclude	Exclude
21	M60 J19	1487	864	933	2510	0	0	0	5894	1577	897	337	2523	0	0	0	6198	254	-67	4	13	0	0	0	4%	Assess	Exclude	Exclude
22	A576 Middleton Road / A6045 Heywood Old Road	453	755	15	1590	0	0	0	2813	529	664	18	1773	0	0	0	2984	76	-91	3	183	0	0	0	6%	Assess	Assess	Assess
23	A58 Rochdale Road / B6211 Wash Lane traffic signals (LINSIG)	1106	1095	2380	0	0	0	0	4581	1098	1075	2562	0	0	0	0	4735	-7	-20	182	0	0	0	0	3%	Assess	Exclude	Exclude

Northern Gateway - JPA 1.1 - Sifting of Junctions for Assessment

Comparison between
Run 10
Run 14

Junction Ref		Do Minimum							AM Peak							Do Something							Difference							Sift 1	Sift 2	Overall
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)							
2	M62 J19 A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	1017	924	920	548	712	0	0	4121	1014	946	913	265	0	668	0	3807	-3	22	-7	-282	-712	668	0	-8%	Assess	Exclude	Exclude				
		529	883	531	561	0	0	0	2503	484	808	637	495	0	0	0	2425	-45	-74	106	-66	0	0	0	-3%	Assess	Exclude	Exclude				
4	Hareshill Road / Hill Top Road	534	102	844	98	0	0	0	1578	568	112	894	102	0	0	0	1676	34	10	50	4	0	0	0	6%	Exclude	Assess	Exclude				
5	Hareshill Road / Pilsworth Road	504	609	718	0	0	0	0	1831	592	726	832	0	0	0	0	2149	88	117	114	0	0	0	0	17%	Assess	Assess	Assess				
6	Pilsworth Road / ASB Bury St	683	987	517	0	0	0	0	2186	621	1063	543	0	0	0	0	2227	-62	76	27	0	0	0	0	2%	Assess	Exclude	Exclude				
7	Pilsworth Road / Heywood Distribution Centre	576	325	800	0	0	0	0	1701	728	333	1068	0	0	0	0	2130	152	8	268	0	0	0	0	25%	Assess	Assess	Assess				
8	Pilsworth Road / JPA1.1 & SIDA employment	605	27	594	0	0	0	0	1286	1002	30	749	0	0	0	0	1781	336	3	155	0	0	0	0	38%	Assess	Assess	Assess				
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	660	202	607	0	0	0	0	1559	1000	468	1575	18	0	0	0	2061	340	176	968	18	0	0	0	90%	Assess	Assess	Assess				
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	604	516	267	0	0	0	0	1588	1135	1307	531	0	0	0	0	2973	331	791	264	0	0	0	0	87%	Assess	Assess	Assess				
11	M66 J3	912	466	804	934	0	0	0	3116	1162	728	1077	1167	0	0	0	4134	250	262	273	233	0	0	0	33%	Assess	Assess	Assess				
12	M62 J2	1854	649	94	1267	1845	114	0	5823	2090	508	99	1318	1868	118	0	6001	236	-141	5	51	23	4	0	3%	Assess	Exclude	Exclude				
13	Whittle Lane / A6045 Heywood Old Road	472	93	749	0	0	0	0	1314	719	21	616	0	0	0	0	1355	247	-73	-123	0	0	0	0	3%	Assess	Exclude	Exclude				
14	A6045 Heywood Old Road / Langley Lane	461	471	466	0	0	0	0	1399	417	437	541	0	0	0	0	1394	-44	-35	74	0	0	0	0	0%	Assess	Exclude	Exclude				
15	Langley Lane / A6046 Hollin Lane	994	176	685	0	0	0	0	1855	1017	112	732	0	0	0	0	1860	23	-65	47	0	0	0	0	0%	Exclude	Exclude	Exclude				
16	A6045 Manchester Road / Coronation Avenue	445	431	616	0	0	0	0	1492	488	410	729	0	0	0	0	1627	43	-22	113	0	0	0	0	9%	Assess	Assess	Assess				
17	Hollins Brow / Hollins Lane	807	268	764	0	0	0	0	1840	882	323	867	0	0	0	0	2073	75	55	103	0	0	0	0	13%	Assess	Assess	Assess				
18	Hollins Brow / ASB Manchester Road	1228	540	1104	0	0	0	0	2872	1309	545	1133	0	0	0	0	2986	81	5	29	0	0	0	0	4%	Assess	Exclude	Exclude				
19	M60 J18	1503	6543	4703	8826	0	0	0	25575	5581	6482	5086	8819	0	0	0	25968	78	-61	383	-7	0	0	0	2%	Assess	Exclude	Exclude				
20	M62 J20	2076	6080	2804	7323	0	0	0	18283	2240	6349	3092	7535	0	0	0	19216	164	269	288	212	0	0	0	5%	Assess	Assess	Assess				
21	M60 J19	1528	1121	870	1432	0	0	0	4951	1725	1262	828	1627	0	0	0	5442	197	141	-42	195	0	0	0	10%	Assess	Assess	Assess				
22	A576 Middleton Road / A6045 Heywood Old Road	528	699	23	1108	0	0	0	2359	594	791	25	1251	0	0	0	2662	65	92	2	144	0	0	0	13%	Assess	Assess	Assess				
23	ASB Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	980	1009	2576	0	0	0	0	4565	1118	1092	2615	0	0	0	0	4825	139	83	38	0	0	0	0	6%	Assess	Assess	Assess				

Junction Ref		Do Minimum														Inter Peak														Do Something														Difference														Sift 1	Sift 2	Overall
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)																																			
2	M62 J19	801	506	824	601	440	0	0	3172	809	518	830	385	0	445	0	2987	8	12	6	-216	-440	445	0	-6%	Assess	Exclude	Exclude																																
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	341	591	525	424	0	0	0	1880	342	496	590	590	449	0	0	0	1878	2	-95	65	26	0	0	0	0%	Assess	Exclude	Exclude																															
4	Hareshill Road / Hill Top Road	373	133	575	153	0	0	0	1234	477	139	471	155	0	0	0	1242	104	6	-104	2	0	0	0	1%	Assess	Exclude	Exclude																																
5	Hareshill Road / Pilsworth Road	488	355	553	0	0	0	0	1396	663	407	528	0	0	0	0	1598	175	52	-25	0	0	0	0	14%	Assess	Assess	Assess																																
6	Pilsworth Road / ASB Bury St	616	766	433	0	0	0	0	1816	641	788	477	0	0	0	0	1906	25	22	43	0	0	0	0	5%	Exclude	Exclude	Exclude																																
7	Pilsworth Road / Heywood Distribution Centre	419	411	569	0	0	0	0	1399	702	419	603	0	0	0	0	1724	283	7	35	0	0	0	0	23%	Assess	Assess	Assess																																
8	Pilsworth Road / JPA1.1 & SIDA employment	518	42	427	0	0	0	0	987	465	43	711	0	0	0	0	1419	147	1	284	0	0	0	0	44%	Assess	Assess	Assess																																
9	3 Arrows (Pilsworth Road / Moss Hall Road - South)	530	218	587	0	0	0	0	1255	677	688	1124	31	0	0	0	2511	148	480	617	31	0	0	0	102%	Assess	Assess	Assess																																
10	Fowler Welch (Pilsworth Road / Moss Hall Road - North)	654	465	180	0	0	0	0	1299	1155	1061	233	0	0	0	0	2449	501	596	53	0	0	0	0	88%	Assess	Assess	Assess																																
11	M62 J3	1062	376	546	639	0	0	0	2623	1108	601	877	756	0	0	0	3342	46	225	331	117	0	0	0	27%	Assess	Assess	Assess																																
12	M62 J2	1825	483	144	827	1546	153	0	4978	1954	423	148	960	1599	157	0	5241	129	-60	4	133	53	4	0	5%	Assess	Assess	Assess																																
13	Whittle Lane / A6045 Heywood Old Road	527	118	451	0	0	0	0	1096	612	102	422	0	0	0	0	1136	85	-16	-29	0	0	0	0	4%	Assess	Exclude	Exclude																																
14	A6045 Heywood Old Road / Langley Lane	488	277	592	0	0	0	0	1157	289	256	650	0	0	0	0	1195	1	-21	59	0	0	0	0	3%	Exclude	Exclude	Exclude																																
15	Langley Lane / A6046 Hollin Lane	985	97	607	0	0	0	0	1689	964	115	653	0	0	0	0	1732	-21	17	46	0	0	0	0	3%	Exclude	Exclude	Exclude																																
16	A6045 Manchester Road / Coronation Avenue	386	274	535	0	0	0	0	1195	403	278	565	0	0	0	0	1246	17	4	30	0	0	0	0	4%	Exclude	Exclude	Exclude																																
17	Hollins Brow / Hollins Lane	681	229	670	0	0	0	0	1589	767	245	691	0	0	0	0	1703	87	16	21	0	0	0	0	8%	Assess	Assess	Assess																																
18	Hollins Brow / ASB Manchester Road	1199	552	925	0	0	0	0	2597	1141	566	919	0	0	0	0	2686	32	14	43	0	0	0	0	3%	Exclude	Exclude	Exclude																																
19	M60 J18	3966	6340	3789	8554	0	0	0	22649	3843	6467	3945	8571	0	0	0	22826	-123	127	156	17	0	0	0	1%	Assess	Exclude	Exclude																																
20	M62 J20	1649	5944	1848	6962	0	0	0	16403	1710	6093	1858	7208	0	0	0	16869	61	149	10	246	0	0	0	3%	Assess	Exclude	Exclude																																
21	M60 J19	1038	815	923	1664	0	0	0	4440	1161	929	948	1734	0	0	0	4772	123	114	25	70	0	0	0	7%	Assess	Assess	Assess																																
22	A576 Middleton Road / A6045 Heywood Old Road	370	659	19	1172	0	0	0	2220	455	747	20	1353	0	0	0	2575	86	88	1	181	0	0	0	16%	Assess	Assess	Assess																																
23	ASB Rochdale Road / B6221 Wash Lane traffic signals (LINSIG)	931	951	2034	0	0	0	0	3916	1037	976	2209	0	0	0	0	4222	106	25	175	0	0	0	0	8%	Assess	Assess	Assess																																

Junction Ref		Do Minimum							PM Peak							Do Something							Difference							Sift 1	Sift 2	Overall
		Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total	Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	Arm 7	Junction Total (% increase)								
2	A6045 Manchester Road / Queen Elizabeth II Way (QEII Way)	387	750	720	445	0	0	2302	398	641	783	530	0	0	2362	11	-109	63	85	0	0	0	0	2%	Assess	Exclude	Exclude					
4	Haweshill Road / Hill Top Road	371	148	534	198	0	0	1251	531	148	443	202	0	0	1324	160	0	-91	4	0	0	0	0	15%	Assess	Assess	Assess					
5	Haweshill Road / Pilsworth Road	562	388	826	0	0	0	1577	778	419	614	0	0	0	1811	216	30	-12	0	0	0	0	0	13%	Assess	Assess	Assess					
6	Pilsworth Road / ASB Bury St	639	895	513	0	0	0	2047	651	905	512	0	0	0	2068	12	10	-1	0	0	0	0	0	1%	Exclude	Exclude	Exclude					
7	Pilsworth Road / Heywood Distribution Centre	467	357	563	0	0	0	1387	752	361	605	0	0	0	1718	286	5	41	0	0	0	0	0	24%	Assess	Assess	Assess					
8	Pilsworth Road / JPAL 1 & 3DA employment	613	42	461	0	0	0	1116	725	45	750	0	0	0	1208	113	7	289	0	0	0	0	0	30%	Assess	Assess	Assess					
9	1 Arneson Pilsworth Road / Moss Hall Road - South	631	250	652	1024	0	0	2457	634	743	1024	0	0	0	2719	145	0	-129	116	0	0	0	0	200%	Assess	Assess	Assess					
10	Fowler Weitch (Pilsworth Road / Moss Hall Road - North)	718	508	245	0	0	0	1532	1465	1101	225	0	0	0	2791	687	593	-20	0	0	0	0	0	82%	Assess	Assess	Assess					
11	M66 J3	1182	337	598	716	0	0	2833	1263	584	1102	793	0	0	3740	79	247	504	77	0	0	0	0	32%	Assess	Assess	Assess					
12	M66 J2	2169	522	134	1062	1785	235	5907	2173	469	135	1185	1822	235	6719	4	53	1	123	37	0	0	0	2%	Assess	Exclude	Exclude					
13	Whitwell Lane / A6045 Heywood Old Road	823	194	792	0	0	0	1807	861	0	657	0	0	0	2020	202	17	1578	0	0	0	0	0	-2%	Exclude	Exclude	Exclude					
14	A6045 Heywood Old Road / Langley Lane	384	326	927	0	0	0	1637	373	357	942	0	0	0	1670	-13	30	15	0	0	0	0	0	2%	Exclude	Exclude	Exclude					
15	Langley Lane / A6046 Hollin Lane	1048	114	767	0	0	0	1929	1067	108	815	0	0	0	1989	20	-6	47	0	0	0	0	0	3%	Exclude	Exclude	Exclude					
16	A6045 Manchester Road / Coronation Avenue	856	418	630	0	0	0	1454	422	353	674	0	0	0	1449	16	65	44	0	0	0	0	0	0%	Exclude	Exclude	Exclude					
17	Hollins Brow / Hollins Lane	405	184	703	0	0	0	1742	961	224	723	0	0	0	1909	106	40	20	0	0	0	0	0	10%	Assess	Assess	Assess					
18	Hollins Brow / ASB Manchester Road	1241	590	1030	0	0	0	2863	1312	1312	631	0	0	0	2951	63	12	-208	91	0	0	0	0	4%	Assess	Exclude	Exclude					
19	M60 J18	4871	6525	5110	9018	0	0	25524	4693	6915	5220	9058	0	0	25586	178	700	110	40	0	0	0	0	1%	Assess	Exclude	Exclude					
20	M62 J20	2235	5736	3076	6879	0	0	17929	2277	5816	3153	7212	0	0	18458	42	80	74	333	0	0	0	0	3%	Assess	Exclude	Exclude					
21	M60 J19	1487	964	933	2510	0	0	5894	1796	770	272	2540	0	0	6078	309	-194	39	30	0	0	0	0	3%	Assess	Exclude	Exclude					
22	A675 Middleton Road / A6045 Heywood Old Road	493	755	15	1590	0	0	2813	485	558	18	1848	0	0	2909	34	-198	3	25	0	0	0	0	3%	Assess	Exclude	Exclude					
23	ASB Rochdale Road / B6021 Wash Lane traffic signals (LJNSIG)	1106	1095	2380	0	0	0	4581	1121	1083	2545	0	0	0	4749	15	12	165	0	0	0	0	0	4%	Assess	Exclude	Exclude					