Appendix B: Journey times

In Appendix B to the LVRPA's Paper A/4228/16 (https://www.saveleamarshes.org.uk/DocumentSearch/display.php?Document=74), there is a table of train and tube travel times between both LVIC and EM and a list of typical locations in and around London. But these figures are of little value in assessing how accessible the two sites are by public transport.

It would appear (by comparing with information on the TFL website) that these are *minimum* journey times. In other words, they are the times that would be spent travelling if one timed the start of each journey to coincide precisely with the train's departure time. But this is not realistic, because it takes no account of service frequencies. You might have a very fast service to your desired destination, but if it only runs once in a blue moon then that is going to be of no practical use to you. What we need to know is the *most probable* total journey time for *any* departure time, in other words including time spent waiting on platforms. Obviously it would be quite impractical to compute all these times for every possible time of the day and day of the week. However, a reasonable approximation may be achieved by selecting just *one* typical time, and using that consistently as the start time for every journey. In some cases this method will probably overstate the most probable total journey time, and in other cases it will probably understate it; but on average it should give a reasonably representative result. Also, to reduce the amount of data, it should not be necessary to compute both outward and inward journey times – one should be pretty much the same as the other.

I have therefore used the TFL Journey Planner to recalculate all of the journey times subject to this principle. The start time that I have used is noon on a Wednesday (a weekday rather than a weekend, because there are often service disruptions on a weekend). And I have only considered journeys *from* the two sites. If you suspect that I have selected this time in order to favour EM at the expense of LVIC, then you are welcome to repeat the analysis using some other time. (The TFL Journey Planner is at https://tfl.gov.uk/). However, there is an issue with the TFL Journey Planner.

The Planner seems to be unduly pessimistic in estimating walking times to the nearest stations. For both LVIC and EM, there are two nearby stations: Lea Bridge and Clapton for the former, and Leyton and Stratford International for the latter. To ensure that these are properly considered, I have used the Planner to get journey times from each of these stations as well as from the two sites. To incorporate these results correctly, it is necessary to know the actual walking times between the sites and their nearest stations, so I have measured them *in situ* (and I can also provide GPX traces if required). They are as follows.

From	To	Time (minutes)	Distance (miles)
LVIC	Lea Bridge station	10	0.54
LVIC	Clapton station	13	0.70
EM	Leyton station	12	0.66
EM	Stratford International	13	0.82

So this has meant to each location I have had to calculate six different journey times: from LVIC using the Planner's recommended route, from LVIC via Lea Bridge station, from the LVIC via Clapton station, from EM using the Planner's recommended route, from EM via Leyton station, and from EM via Stratford International station. The earliest arrival time for the first three gives the total journey time for LVIC, and the earliest arrival time for the

second three gives the total journey time for EM. These total journey times are summarized below.

	LVIC	EM	Difference	Key
Tottenham Hale	00:25	00:43	18	LVIC is better
Stratford	00:23	00:16	-7	EM is better
Cheshunt	00:48	00:52	4	
Bishops Stortford	01:14	01:17	3	
Chelmsford	01:02	00:52	-10	
Southend Central	01:28	01:28	0	
Southend Victoria	01:34	01:34	0	
Ealing Broadway	01:11	01:02	-9	
Liverpool Street	00:37	00:26	-11	
Wimbledon	01:13	01:03	-10	
Epping	01:01	00:41	-20	
Brixton	00:54	00:50	-4	
North Acton	01:06	00:56	-10	
Clapton	00:13	00:43	30	
Hertford East	01:31	01:31	0	
Average (mins)			-2	

The details from the Planner are shown on the next page.

e Centre	to	route	leg 1	leg 2		leg:		leg 4		leg 5		leg 6		leg 7	7	leg 8
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		LB		Lea Bridge	12:22 rail	Tottenham Hale	12:25 arrive							1		
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		any	start 12:00 walk	Leyton	12:21 tube	Stratford	12:30 rail	Tottenham Hale	12:43 arrive							
n Manor		Leyton	start 12:00 walk	Leyton	12:21 tube	Stratford	12:30 rail	Tottenham Hale	12:43 arrive							
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