Appendix TA - X

CAR PARKING ACCUMULATION

TECHNICAL NOTE – Car Park Accumulation

DATE:	24 December 2020	**CONFIDENTIALITY:**	Public
SUBJECT:	Car Park Accumulation		
PROJECT:	London Resort	**AUTHOR:**	Philip Moss
CHECKED:	David Dixon	**APPROVED:**	Ian Fielding

Introduction

WSP has been appointed by London Resort Company Holdings Limited (LRCH) to advise on transport related matters in relation to the submission of a Development Consent Order (DCO) for The London Resort, located in Swanscombe, Kent.

The London Resort development seeks to provide a truly world class entertainment Resort, focusing on a main park initially (known as Gate 1), before building out a second gate feature of the site (known as Gate 2). The second park area will be complimentary to the main gate, and users will be able to visit two world leading parks in the same area, with each delivering its own unique content and visitor experience. The park will also benefit from a retail, dining and entertainment (RDE) area to create an exceptional visitor attraction.

The proposals are split into two project sites. The Kent Project Site (which will have direct access to The London Resort) and the Essex Project Site. The Essex Project Site is located north of the river, in Tilbury. Visitors arriving from Essex, and other areas north of the river by car would be directed to park at Tilbury and access the main Resort via a ferry service.

The DCO planning application will provide up to 10,000 car parking spaces in 2038 for visitors, with a further 500 spaces provided for Staff. The Kent Project Site will accommodate 7,500 car parking spaces (which will have direct access to The London Resort) this includes 1,065 car parking spaces provided specifically for the on-site hotel provision. The Essex Project Site will accommodate 2,500 car parking spaces; these will be located north of the river. This Note presents the forecast parking demand and resultant accumulation at the Resort. This is determined by the forecast vehicle demand identified for the private vehicle mode share presented in detail in Technical Note 3 and summarised in the Transport Assessment and Technical Note 1 for visitors and staff.

The visitor car park for the Resort will initially provide 5,000 visitor car parking spaces at the opening of Gate 1. Of the 5,000 spaces these will be split 25:75 between the Essex Project site north of the River Thames and the Kent Project Site at the Resort with 690 spaces reserved for the Hotel Car Parks. Upon the opening of the Gate Two in 2029, the visitor car parking will increase to 7,500 spaces with an increase in the size of Hotel car park amounting to 1,065 spaces. The increase in visitor parking will continued to be split 25:75 north and south of the River Thames. As specified above, at maturity by 2038, there will be a total of 10,000 spaces, split 25:75 between the Essex and Kent Project Sites.

An accumulation exercise has been undertaken for the Visitor, Hotel and Staff Car Parks using the forecast arrivals, offset against the forecast departures at the site for each hour period. To ensure the assessment provide a robust forecast of demand, the calculation allows for visitors to depart up to one hour after their forecast departure time to ensure that the time associated with parking circulation, transfers and security of

arrivals/departures is accommodated by allowing sufficient parking capacity for these operations to occur. The parking accumulation forecasts broadly follow Formula C1 below:

Formula C1: *Accumulation @ 11:00 – 12:00 = Accumulation @ 10:00 – 11:00 + Forecast Arrivals (11:00 12:00) – Forecast Departures (10:00 – 11:00)*

By allowing up to an hour lag in the parking accumulation, as reflected in the above formula, this methodology provides a robust assessment which ensures that potential delays in these operations should not adversely affect the amenity of drivers travelling to the site, identify a parking space or leaving the site after a visit. The methodology also contemplates the potential for unforeseen delays exiting the resort and car parks. This is deemed less likely to occur at the Staff Car Park but for robustness Formula C1 will be used.

The visitor car park demand will be managed through the ticketing process for the Resort. When visitor purchases ticket online they will have the option to obtain a car park ticket, if on certain peak operating days the car park is full, visitors will not be able to purchase a car park ticket.

Accumulation Based on Car Park being at full capacity

VISITOR VEHICLE DEMAND AND ACCUMULATION

This part will focus on Visitor car park across the assessment years outlined within Technical Note 1 and Transport Assessment. A 5% reduction would be applied to the capacity of the visitor car park to take account of the circulation particularly for specific parking provisions such as disabled spaces. The parking management strategy adopted, will use technology to direct drivers to available spaces, however it has been considered prudent to preserve allowances for this purpose to maintain the quality and amenity of visitors to the site and thereby preserve additional spaces should other unforeseen events occur.

Table 1 presents the breakdown in the car park capacity across the assessment years of 2025, 2029 and 2038. The table presents the split between the Main Resort Car Park and Tilbury Car Park in terms of total capacity and with the 5% reduction. The parking provision provided does not account for those 690 and 1,065 spaces set aside for the hotel provision at 2025, 2029 and by 2038 respectively.

Table 1 – Visitor Car Par Capacity across the assessment years

Car Parks		2025	2029	2038
Main Visitor Car Park	Main Resort Car Park	3,060	4,560	6,435

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	Tilbury Car Park	1,250	1,875	2,500
	Total	4,310	6,435	8,935
Main Visitor Car Park (5% reduced capacity)	Main Resort Car Park	2,907	4,332	6,113
	Tilbury Car Park	1,188	1,781	2,375
	Total	4,095	6,113	8,488

This assessment is based on the accumulation of the car parks utilising the robust private car mode share, this is outlined in further detail in Chapter 8 of the Transport Assessment. Provided below are the assessment scenarios considered, as presented in the following tables:

- Table 2 and Table 3 – presents the 2025 visitor car park accumulation on the 85th Percentile Day and the Peak Day respectively;
- Table 4 and Table 5 – shows the 2029 visitor car park accumulation on the 85th Percentile Day and the Peak Day respectively; and
- Table 6 and Table 7 – summaries the 2038 visitor car park accumulation on the 85th Percentile Day and the Peak Day respectively.

TECHNICAL NOTE – Car Park Accumulation

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Table 2 – Visitor Car Park Accumulation 85th Percentile Day 2025 Robust Vehicle Mode Share

	Before 10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arrivals	306	712	669	614	659	492	415	343	79	163	93	11	0	0	0
Departures	0	0	0	12	46	59	432	511	538	698	613	852	782	11	0
Accumulation	306	1,018	1,687	2,301	2,960	3,440	3,809	4,093	3,740	3,392	2,947	2,260	1,647	795	13

Table 3 – Visitor Car Park Accumulation Peak Day 2025 Robust Vehicle Mode Share

	Before 10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arrivals	303	724	702	652	672	490	419	355	131	285	162	19	0	0	0
Departures	0	0	0	0	33	87	103	447	509	540	706	660	966	842	19
Accumulation	303	1,027	1,729	2,381	3,053	3,510	3,842	4,094	3,778	3,554	3,176	2,489	1,829	863	21

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Table 4 – Visitor Car Park Accumulation 85th Percentile Day 2029 Robust Vehicle Mode Share

	Before 10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arrivals	458	1,040	979	909	969	721	611	509	142	296	169	18	0	0	0
Departures	0	0	0	0	22	75	90	629	740	771	1,014	941	1,323	1,196	18
Accumulation	458	1,498	2,477	3,386	4,355	5,054	5,590	6,009	5,522	5,078	4,476	3,480	2,539	1,216	20

Table 5 – Visitor Car Park Accumulation Peak Day 2029 Robust Vehicle Mode Share

	Before 10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arrivals	456	1,080	1,056	991	1,006	730	627	540	239	519	295	33	0	0	0
Departures	0	0	0	57	148	172	668	752	793	1,049	1,036	1,543	1,320	33	0
Accumulation	456	1,536	2,592	3,583	4,589	5,262	5,741	6,109	5,680	5,447	4,949	3,933	2,897	1,354	34

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Table 6 – Visitor Car Park Accumulation 85th Percentile Day 2038 Robust Vehicle Mode Share

	Before 10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arrivals	654	1464	1366	1272	1367	1018	861	714	179	372	212	22	0	0	0
Departures	0	0	0	0	27	92	110	881	1,038	1,072	1,417	1,320	1,840	1,680	22
Accumulation	654	2,118	3,484	4,756	6,123	7,114	7,883	8,487	7,785	7,119	6,259	4,864	3,544	1,704	24

Table 7 – Visitor Car Park Accumulation Peak Day 2038 Robust Vehicle Mode Share

	Before 10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arrivals	646	1,489	1,434	1,350	1,394	1,015	867	739	286	621	354	39	0	0	0
Departures	0	0	0	0	70	175	202	913	1,035	1,076	1,434	1,414	2,072	1,804	39
Accumulation	646	2,135	3,569	4,919	6,313	7,258	7,950	8,487	7,860	7,446	6,724	5,329	3,915	1,843	39

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The results presented above, forecast that the visitor car parks to operate at capacity and will reach peak occupancy between 1600-1700. The busiest period for car park occupancy will be between 1400-1900, with the peak departure occurring between 2100-2200 as the resort is about to close in the peak operating period.

HOTEL VEHICLE DEMAND AND ACCUMULATION

This section outlines the hotel vehicle demand and accumulation, the amount of hotel car parking provided in 2025 is 690, increasing to 1,065 in 2029 and 2038 when the Resort is fully operation with a total of 3,550 hotel rooms.

As outlined for the Visitor Car Park, a 5% reduction was be applied to the capacity of the visitor car park. For the Hotel car park this is not required as the parking management for the hotel car park will be different to the visitor car parks. Once a booking for the hotel is made the visitor will be provided with a parking space within the hotel car park. All visitors of the hotel will be required to make the Resort aware of their arrival and departure time, this will allow for maximum utilisation of the spaces within the car park. This will provide an efficient parking system and experience for visitors to the Resort.

Provided below are the assessment scenarios considered, as presented in the following tables:

- Table 8 and Table 9 – presents the 2025 hotel car park accumulation on the 85th Percentile Day and the Peak Day respectively.
- Table 10 and Table 11 – shows the 2029 hotel car park accumulation on the 85th Percentile Day and the Peak Day respectively.
- Table 12 and Table 13 – summaries the 2038 hotel car park accumulation on the 85th Percentile Day and the Peak Day respectively

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Table 8 – Hotel Car Park Accumulation 85th Percentile Day 2025 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	0	0	0	14	34	68	102	102	136	102	68	34	14	7	0	0	0
Dep	7	14	35	35	71	85	120	113	71	71	35	35	14	0	0	0	0
Acc	682	675	661	639	638	636	653	635	658	690	687	686	664	657	657	657	657

Table 9 – Hotel Car Park Accumulation Peak Day 2025 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	0	0	0	13	33	65	98	98	131	98	65	33	13	7	0	0	0
Dep	6	12	30	30	61	73	103	97	61	61	30	30	12	0	0	0	0
Acc	621	615	603	586	588	592	618	612	646	683	688	690	673	667	667	667	667

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Table 10 – Hotel Car Park Accumulation 85th Percentile Day 2029 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	0	0	0	18	45	89	134	134	179	134	89	45	18	9	0	0	0
Dep	9	19	47	47	94	112	159	150	94	94	47	47	19	-	0	0	0
Acc	1,061	1,051	1,033	1,004	1,002	998	1,020	995	1,024	1,065	1,061	1,059	1,030	1,020	1,020	1,020	1,020

Table 11 – Hotel Car Park Accumulation Peak Day 2029 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	0	0	0	18	45	91	136	136	182	136	91	45	18	9	0	0	0
Dep	9	18	45	45	91	109	154	145	91	91	45	45	18	0	0	0	0
Acc	1,028	1,019	1,001	973	973	974	1,001	983	1,020	1,065	1,065	1,065	1,038	1,029	1,029	1,029	1,029

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Table 12 – Hotel Car Park Accumulation 85th Percentile Day 2038 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	0	0	0	18	45	89	134	134	178	134	89	45	18	9	0	0	0
Dep	9	19	47	47	93	112	158	149	93	93	47	47	19	0	0	0	0
Acc	1,061	1,051	1,033	1,004	1,002	998	1,020	995	1,024	1,065	1,061	1,059	1,030	1,020	1,020	1,020	1,020

Table 13 – Hotel Car Park Accumulation Peak Day 2038 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	0	0	0	18	44	89	133	133	178	133	89	44	18	9	0	0	0
Dep	9	17	43	43	87	104	148	139	87	87	43	43	17	0	0	0	0
Acc	1,010	1,002	984	959	960	962	991	977	1,015	1,062	1,064	1,065	1,039	1,031	1,031	1,031	1,031

DATE:	24 December 2020	**CONFIDENTIALITY:**	Public
SUBJECT:	Car Park Accumulation		
PROJECT:	London Resort	**AUTHOR:**	Philip Moss
CHECKED:	David Dixon	**APPROVED:**	Ian Fielding

The tables above, present the hotel car park occupancy for the assessment scenarios outlined previously. The occupancy level of the Hotel car park is forecast to not drop below 80% on an 85th Percentile Day and peak day operation in 2025, 2029 and 2038. The peak arrivals to the Hotel car park is forecast to occur between 1500-1600 and the peak departures will be between 1300-1400.

STAFF VEHICLE DEMAND AND ACCUMULATION

This section outlines the staff vehicle demand and accumulation, the amount of staff car parking provided in will be 500 spaces this will be in place from when the Resort opens in 2024.

The Staff car park will not have a reduction of 5% of its capacity applied; this is due to the size of the car park and the day to day usage from the staff, who with knowledge of the car park will, intuitively, improve the efficiency of use and its day to day operation.

The following tables provide a daily profile of the staff car park accumulation at The London Resort. The subsequent bullet points provide the information what scenario and assessment is shown in the following tables.

The subsequent bullet points provide details on the car park accumulation and outlines the scenario which is presented in each of the following tables.

- Table 14 and Table 15 – presents the 2025 staff car park accumulation on the 85th Percentile Day and the Peak Day respectively.
- Table 16 and Table 17 – shows the 2029 staff car park accumulation on the 85th Percentile Day and the Peak Day respectively.
- Table 18 and Table 19 – summaries the 2038 staff car park accumulation on the 85th Percentile Day and the Peak Day respectively

TECHNICAL NOTE – Car Park Accumulation

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Table 14 – Staff Car Park Accumulation 85th Percentile Day 2025 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	79	106	119	58	54	77	27	58	49	49	27	69	34	4	21	4	38
Dep	27	4	4	4	4	4	4	48	145	114	27	49	92	27	53	145	122
Acc	53	132	246	300	350	423	445	499	500	404	316	359	344	256	251	202	95

Table 15 – Staff Car Park Accumulation Peak Day 2025 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	77	108	116	60	54	71	27	60	50	50	27	64	32	4	20	4	37
Dep	27	4	4	4	4	4	4	46	145	112	27	50	89	27	54	145	117
Acc	50	131	243	299	350	416	440	495	500	406	321	358	340	255	247	197	90

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CHECKED:	David Dixon	**APPROVED:**	Ian Fielding

Table 16 – Staff Car Park Accumulation 85th Percentile Day 2029 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	78	110	118	53	57	84	28	53	51	51	28	75	33	4	21	4	40
Dep	28	4	4	4	4	4	4	52	149	114	28	51	91	28	56	149	120
Acc	50	132	247	296	348	428	451	500	500	403	316	363	345	259	252	201	92

Table 17 – Staff Car Park Accumulation Peak Day 2029 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	76	113	116	55	58	77	28	55	53	53	28	69	31	4	19	4	39
Dep	28	4	4	4	4	4	4	49	148	112	28	53	87	28	57	148	114
Acc	47	132	243	294	348	421	446	497	500	405	321	362	340	257	248	195	86

Visitor and Staff Car Park Accumulation

DATE:	15 December 2020	**CONFIDENTIALITY:**	Public
SUBJECT:	LONDON Resort – Visitor and Staff Car Park Accumulation		
PROJECT:	London Resort	**AUTHOR:**	Philip Moss
CHECKED:	Alex Smith	**APPROVED:**	Ian Fielding

Table 18 – Staff Car Park Accumulation 85th Percentile Day 2038 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	77	111	117	54	57	82	28	54	52	52	28	73	33	4	20	4	40
Dep	28	4	4	4	4	4	4	51	148	113	28	52	89	28	56	148	118
Acc	49	132	246	295	348	426	449	499	500	404	318	363	344	258	251	199	90

Table 19 – Staff Car Park Accumulation Peak Day 2038 Robust Private Vehicle Mode Share

	Bef 08:00	08:00-09:00	09:00-10:00	10:00-11:00	11:00-12:00	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Arr	75	114	115	55	58	75	29	55	53	53	29	68	30	4	19	4	39
Dep	29	4	4	4	4	4	4	48	148	111	29	53	86	29	57	148	113
Acc	46	131	242	294	348	419	444	496	500	405	323	362	339	257	247	194	84

Visitor and Staff Car Park Accumulation

DATE:	15 December 2020	**CONFIDENTIALITY:**	Public
SUBJECT:	LONDON Resort – Visitor and Staff Car Park Accumulation		
PROJECT:	London Resort	**AUTHOR:**	Philip Moss
CHECKED:	Alex Smith	**APPROVED:**	Ian Fielding

The Staff Car Park accumulation presented in the Tables above, show that the staff car park will operate at peak capacity between 1500-1600. The Staff car park will likely operate above 80% occupancy between 1200-1700, the forecast peak staff arrival is between 0800-1000 as the Resort is gearing up towards opening at 1000. The peak departure occurs twice during the peak between 1500-1600 and 2200-2300 this is likely to coincide with shift changes during the day and in the hour following the closure of the Resort.

Summary

In summary, it can be seen that sufficient car parking can be provided at the Resort such that it will not be necessary for visitors or staff to park elsewhere in the vicinity of the Proposed Development.