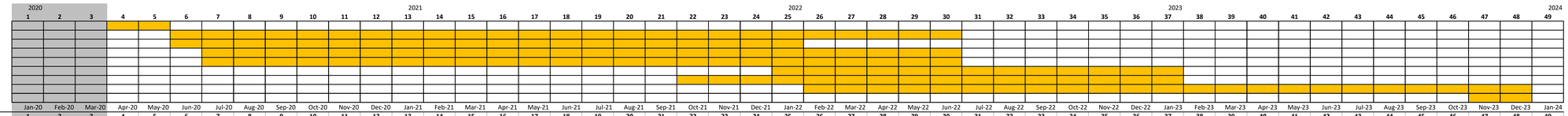
APPENDIX 10.1: ESTIMATED TRAFFIC MOVEMENTS

Viking Wind Farm Estimated Traffic Movements

January 2020 - January 2024



Activity/Month	Journeys (pro rata 103 tubrines) *Journey assumed as a round trip	1 Jan-20	2 Feb-20	3 Mar-20	4 Apr-20	5 May-20	6 Jun-20	7 Jul-20	8 Aug-20	9 Sep-20	10 Oct-20	11 Nov-20	12 Dec-20	13 Jan-21	14 Feb-21	15 Mar-21	16 Apr-21	17 May-21	18 Jun-21	19 Jul-21	20 Aug-21	21 Sep-21	22 Oct-21	23 Nov-21	24 Dec-21	25 Jan-22	26 Feb-22	27 Mar-22	28 Apr-22	29 May-22	30 Jun-22	31 Jul-22	32 Aug-22	33 Sep-22	34 Oct-22	35 Nov-22	36 Dec-22	37 Jan-23	38 Feb-23	39 Mar-23	40 Apr-23	41 May-23	42 Jun-23	43 Jul-23	44 Aug-23	45 Sep-23	46 Oct-23	47 Nov-23	48 Dec-23	49 Jan-24
Site Setup																																																				
SSE Offices	10				5																																												5		
Contractor Offices	32					16																																											16		
Contractor Storage	32					16																																											16		
WTG Supplier Offices	12																						6															6													
WTG Storage	62																						31															31													
Miscellaneous Compound (cones, barriers, fencing, signage, tanks, skips etc)	47				16																										6							6												19	
Contractor Plant Deliveries (incl. 15 Excavators, 1 Crane, 15 Dump Trucks, 6 Batching Plant Items, 4 Rollers, 6 Concrete Trucks, 2 Tractors, 1 Telehandler, 1 Mini excavator, 2 Graders, 2 Bulldozer + Misc. Allowance)	187				24	24	28	19																							50	28																	14	
Concrete Pump	110						6	6	6	6	6	4	4	4	4			6	6	6	6	6	6	4	4	4	4			6	6																					
Electrical Contractor Plant Deliveries (incl. 1 cable plough, 5 Excavators, 2 Telehandlers, 4 Cable Trailers, 4 Tractors + Misc. Allowance)	62																						15	16								15	16																			
Compound Waste (Sewage/Waste, 8 per month)	368				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
WTG Plant Deliveries (2 Erection Cranes, 2 Installation cranes & 2 telehandlers)	24																					12																	12													
Fuel Deliveries (12 per month)	552				12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Construction Materials																																																				
Concrete Sand	2625						125	125	125	125	125	125	125	125	125			125	125	125	125	125	125	125	125	125	125			125	125																				
Concrete Cement	521						25	25	25	25	25	25	25	25	25			25	25	25	25	25	25	25	25	25	25			25	25																				
Concrete Aggregate	192						32	32	32									32	32	32																																
Reinforcement Steel	315						15	15	15	15	15	15	15	15	15			15	15	15	15	15	15	15	15	15	15			15	15																				
Culverts	39						20											20																																		
Building Steel Frame	8																						8																													
Building Cladding, Doors, Windows, External Finishes	16																						16																													
Building Roof	9																						9																													
Miscellaneous Items (Cattle Grids, , Gates, Office Furniture etc)	30				5	5	5	5	5	5																																									
Geotextiles	80					20	20	20	20																																											
Piles (assumed 7-8 bases require piles, 40 No 339mm dia. CHS)	22							11	11																																											
Electrical Equipment																																																				
Electrical Cable	154																		30	30	30	30	30																													
Earth Cable	110																		22	22	22	22	22																													
Fibre Cable	22																				11	11																														
Electrical Equipment (Switchgear, transformers, cable markers etc)	47																		5	5	10	10	10	7																												
Cable Surround Sand	47																		5	5	10	10	10	7																												
Ducts	47																		5	5	10	10	10	7																												
Reactor	2																									2																										
Transformers (3 Transformers x 3 loads + 2 escort vehicles per load)	23																									23																										
WTG Deliveries																																																				
Nacelle	103																						10	10	10	10	10	10	10	10	10	13																				
Top Tower	103																						10	10	10	10	10	10	10	10	10	13																				
Mid Tower	103																						10	10	10	10	10	10	10	10	10	13																				
Base Tower	103																						10	10	10	10	10	10	10	10	10	13																				
Nacelle	103																						10	10	10	10	10	10	10	10	10	13																				
Blades	309																						10	10	10	10	10	10	10	10	10	13																				
Hub	103																						10	10	10	10	10	10	10	10	10	13																				
Drive Train	103																						10	10	10	10	10	10	10	10	10	13																				
TOTAL	**6837**																																																			
Staff																																																				
SSE Staff	14030				305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305
Contractor Office Staff	21160				460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460	460
Contractor Site Staff (Equal to items of plant + 8 general operatives, 2 steel fixing squads of 4 operatives, 1 concrete squad of 5 operatives)	60231				814	1346	2444	2869	2869	2869	2869	2869	2444	1346	1346	2444	2869	2869	2869	2869	2869	2869	2869	2869	2444	1346	1346	814	320	320	320	320	320	320	320	320	160	160	160	160	160	160	160	160	160	160	160	160	160	160
Wind Turbine Supplier Staff (80)	19200																									1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600															
Electrical Contractor Staff (1 Site Manager, 12 Operatives, Plant Operators equal to number of items of plant)	14720									529	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	759	529																							
TOTAL	**136178**	**0**	**0**	**0**	**1649**	**2212**	**3505**	**3912**	**3893**	**4359**	**4584**	**4582**	**4157**	**3059**	**3059**	**3988**	**4413**	**4636**	**4683**	**4683**	**4677**	**4689**	**4831**	**4699**	**4237**	**4764**	**4739**	**4038**	**3314**	**2956**	**3012**	**2852**	**2721**	**2705**	**2705**	**2705**	**2545**	**988**	**957**	**945**	**945**	**945**	**945**	**945**	**945**	**945**	**945**	**945**	**1015**	**945**