

# Appendix Q Data Supporting the Transportation Analyses for Operations and Construction

		Drove alone		13-person	'	Bus or trolley	trolley car,	1()[	walked	,	Worked at home	Auto
Census Tract 0002.00, Kings County, New York	360	135	50	0	0	15	130	0	20	4	0	185
Census Tract 0018.00, Kings County, New York	1,025	355	95	30	75	75	330	25	45	0	0	555
Census Tract 0020.00, Kings County, New York	280	145	10	15	0	10	70	0	4	20	0	170
Total	1665	635	155	45	75	100	530	25	69	24	0	910
		38%	9%	3%	5%	6%	32%	2%	4%	1%	0%	55%
Adjusted mode split		38%	9%	3%	5%	6%	32%	2%	4%	1%		55%

Auto Vehicle Occupancy 1.22

Mode	Raw	Rounded
Drive	54.7%	55%
Subway	31.8%	32%
Bus	6.0%	6%
Ferry or Railroad	1.5%	2%
Bicycle or Walk	4.1%	4%
Taxi or Motorcycle	1.4%	1%
	99.6%	100%

# 2-009 Occupation (25) by Means of transportation to work (11) Current date: 2/7/2022 12:52:43 PM (Eastern Standard Time)

WORKPLACE	Occupation 25	Means of transportation to work 11	Output	Number of Workers
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	Total, Means of transportation (11)	Estimate	360
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	Drove alone	Estimate	135
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	2-person carpool	Estimate	50
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	3-person carpool	Estimate	
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	4-or-more-person carpool	Estimate	
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	Bus or trolley bus	Estimate	15
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	Streetcar, trolley car, subway, or elevated	Estimate	130
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	Railroad or ferryboat	Estimate	
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	Bicycle or walked	Estimate	20
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	Taxicab, motorcycle or other means	Estimate	4
Census Tract 0002.00, Kings County, New York	Construction and excavation occupations	Worked at home	Estimate	
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	Total, Means of transportation (11)	Estimate	1,025
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	Drove alone	Estimate	355
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	2-person carpool	Estimate	95
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	3-person carpool	Estimate	30
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	4-or-more-person carpool	Estimate	75 75
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	Bus or trolley bus	Estimate	75
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	Streetcar, trolley car, subway, or elevated	Estimate	330
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	Railroad or ferryboat	Estimate	25
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	Bicycle or walked	Estimate	45
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	Taxicab, motorcycle or other means	Estimate	
Census Tract 0018.00, Kings County, New York	Construction and excavation occupations	Worked at home	Estimate	
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	Total, Means of transportation (11)	Estimate	280
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	Drove alone	Estimate	145
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	2-person carpool	Estimate	10
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	3-person carpool	Estimate	15
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	4-or-more-person carpool	Estimate	
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	Bus or trolley bus	Estimate	10
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	Streetcar, trolley car, subway, or elevated	Estimate	70
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	Railroad or ferryboat	Estimate	
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	Bicycle or walked	Estimate	4
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	Taxicab, motorcycle or other means	Estimate	20
Census Tract 0020.00, Kings County, New York	Construction and excavation occupations	Worked at home	Estimate	

U.S. Census Bureau, American Community Survey 2006-2010 Five-year estimates. Special Tabulation: Census Transportation Planning

# Table 1 Estimated Peak Hour Person-Trip Generation Characteristics South Brooklyn Marine Terminal Future Build Condition

		Weekday Daily Person-	Saturday Daily Person-		Temporal Dis	stribution (%)			Estimated F	Person-Trips	
Land Use	Size	Trip Rate	Trip Rate	Weekday	Weekday	Weekday	Saturday	Weekday	Weekday	Weekday	Saturday MD
		mp Nate	mp Nate	AM	MD	PM	MD	AM	MD	PM	Saturday WID
Office	22,000 SF	18 trips per 1,000 sf	3.9 trips per 1,000 sf	12.4%	11.0%	10.5%	14.1%	49	44	42	12
Warehouse	35,000 SF	2.36 trips per 1,000 gsf	0.20 trips per 1,000 gsf	10.0%	9.0%	11.0%	33.0%	8	7	9	2
Terminal Operations	85 EM							26	43	26	10
					TOTAL PER	SON-TRIPS =	83	93	76	24	

#### **Total Increments**

 Office =
 22,000
 SF

 Fast Food=
 35,000
 SF

 Terminal Operations
 85
 EM

Revised 03-21-22 (EDC's comments)

Table 2
Estimated Peak Hour Vehicle-Trip Generation Characteristics
South Brooklyn Marine Terminal
Future With-Action Condition

Land Use	Size	Truck Trip	Truck Trip		Midday	PM	Saturday	y In Out		Estimated F	Person-Trips			Estimate	d Mode Spli	t (AM, PI	/I, SAT)			Esti	imated Mode	Split (M	D)		Wee	kday AM	Es V	timated Teekday N		rips (PCI Weekda		Satur	day MD
Land Ose	Oize	Weekday	Saturday	A.W	wiidday		Catarday	y iii out	Weekday AM	Weekday MD	Weekday PM	Saturday MD	Auto	Taxi	Subway/ Railroad	Bus	Walk	Total	Auto	Taxi	Subway/ Railroad	Bus	Walk	Total	Total	In O	ut Tot	al In	Out T	Total I	n Out	Total	In Out
Office	22,000	0.32	0.01	10%	11%	2%	11%	50% 50%	49	44	42	12	50.0%	1.0%	31.0%	5.0%	13.0%	100.0%	50.0%	1.0%	31.0%	5.0%	13.0%	100.0%	1	1	1 2	1	1	0 (	0 0	0	0 0
Warehouse	35,000	0.91	0.08	9.9%	8%	7%	28%		8	7	9	2	50.0%	1.0%	31.0%	5.0%	13.0%	100.0%	50.0%	1.0%	31.0%	5.0%	13.0%	100.0%	6	4	2 5	3	2	4 :	3 2	2	1 1
Terminal Operations	85	30	30	0%	13%	0%	13%	50% 50%	26	43	26	10	50.0%	1.0%	31.0%	5.0%	13.0%	100.0%	2.0%	3.0%	6.0%	6.0%	83.0%	100.0%	0	0	) 8	4	4	0 (	0 0	8	4 4
	TOTAL =								83	93	76	24													8	5	3 15	8	7	5 ;	3 2	10	5 5

\* A PCE factor of 2.0 was applied to convert trucks to passenger car equivalents

For Terminal Operations, the Truck Trip Rate is the number of Daily trucks (In and Out)

### Truck Trip In/Out Split From NYCDOT

Truck Trip	in/Out Split Fr	OTHINTCDC	,
Warehouse	In	Out	
AM	67%	33%	
MD	57%	43%	
PM	60%	40%	
Sat	42%	58%	

Table 2
Estimated Peak Hour Vehicle-Trip Generation Characteristics
South Brooklyn Marine Terminal
Future With-Action Condition

		Turnels Tules	Truck Trip											Esti	mated	Car-Trip	s									Estim	nated V	ehicle-Tr	ips				
Land Use	Size	Rate	Rate		Midday	PM	Saturday	In	Out	Wee	kday /	M	We	ekday I	MD	Wee	kday	PM	Sati	urday	MD	We	ekday .	AM	We	ekday l	MD	Wee	kday l	PM	Satu	ırday N	ИD
Lana Goo	O.Z.C	Weekday	Saturday	<b></b>	imaday		Guturuuy		out	Total	In	Out	Total	In	Out	Total	In	Out	Total	ln	Out	Total	In	Out	Total	ln	Out	Total	ln	Out	Total	ln	Out
Office	22,000	0.32	0.01	10%	11%	2%	11%	50%	50%	22	20	2	20	9	10	19	3	16	5	3	3	24	20	3	21	10	11	19	3	16	6	3	3
Warehouse	35,000	0.91	0.08	9.9%	8%	7%	28%			4	3	1	3	2	2	4	1	3	1	1	0	10	7	3	8	5	4	9	4	5	3	1	1
Terminal Operations	85	30	30	0%	13%	0%	13%	50%	50%	11	11	0	3	1	1	11	0	11	1	0	0	11	11	0	11	5	5	11	0	11	9	4	4
	TOTAL =									37	34	3	26	13	13	34	4	30	7	4	3	45	39	6	40	20	20	39	7	32	17	8	8

\* A PCE factor of 2.0 was applied to convert trucks to passenger car equivalents

For Terminal Operations, the Truck Trip Rate is the number of Daily trucks (In and Out)

## Truck Trip In/Out Split From NYCDOT

Warehouse	In	Out
AM	67%	33%
MD	57%	43%
PM	60%	40%
Sat	42%	58%

Shuttle Bus Trips (PCEs)

Snuttle bus Trip	S (PC	·ES)										
Wee	ekday	AM		W	eekday N	<b>I</b> D	w	eekday P	М	Sa	turday M	D
Total		ln	Out	Total	ln	Out	Total	ln	Out	Total	ln	Out
	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5	3	1.5	1.5

1 Shuttle bus = 1.5 PCEs

This table include shuttle bus trips

					Estima	ted Vehi	cle-Trips	(PCEs)				
	W	eekday A	MA	W	eekday N	/ID	W	eekday F	M	Sa	aturday N	/ID
Land Use	Total	ln	Out	Total	ln	Out	Total	In	Out	Total	ln	Out
Office	24	20	3	21	10	11	19	3	16	6	3	3
Warehouse	10	7	3	8	5	4	9	4	5	3	1	1
Terminal Operations	11	11	0	11	5	5	11	0	11	9	4	4
Shuttle Buses	3	2	2	3	2	2	3	2	2	3	2	2
Total	48	41	8	43	22	22	42	9	33	20	10	10

Table 3
Estimated Peak Hour Person-Trip Generation Increments: Transit and Pedestrians South Brooklyn Marine Terminal Future With-Action Condition

		Estimated I	Person-Trips		Mode Spl	it (AM, PN	l, SAT)	Mode	Split (M	D)				Weekd	lay AM							Weekda	y Midda	y						Wee	kday Pl	Л						Satu	ırday Mido	day		
Land Use	Weekday	Weekday	Weekday	Saturday	Subway/Rai	Rue	Walk	Subway/Rail	Rue	Walk	Subv	vay/Railro	oad	E	3us		Walk		Subw	ay/Railro	ad	Bu	IS		Wal	k	Sub	way/Rai	Iroad		Bus		W	alk .	Su	ıbway/Ra	ilroad		Bus		V	Walk
	AM	MD	PM	MD	Iroad	Dus	Walk	road	Dus	Wain	Total	In	Out	Total	In O	ut Tota	al In	Out	Total	In	Out '	Γotal I	n Oı	ıt Total	l In	Out	Total	In	Out	Total	ln (	Out To	otal	In Ou	t Tota	.i In	Out	Total	. In	Out T	Total	In Ou
Office	49	44	42	12	31.0%	5.0%	13.0%	31.0%	5.0%	13.0%	15	14	2	2	2 (	) 6	6	1	14	6	7	2	1 1	6	3	3	13	2	11	2	0	2	5	1 4	4	2	2	1	0	0	2	1 1
Warehouse	8	7	9	2	31.0%	5.0%	13.0%	31.0%	5.0%	13.0%	3	2	1	0	0 0	) 1	1	0	2	1	1	0 (	0 0	1	1	0	3	1	2	0	0	0	1	0 1	1	0	0	0	0	0	0	0 0
Terminal Operations	26	43	26	10	31.0%	5.0%	13.0%	6.0%	6.0%	83.0%	8	8	0	1	1 (	) 3	3	0	3	1	1	3	1 1	35	18	18	8	0	8	1	0	1	3	0 3	1	0	0	1	0	0	8	4 4
TOTAL =	83	93	76	24			TOT	AL NET NEW	PERSON	-TRIPS =	26	23	2	4	4 (	) 11	10	1	18	9	9	5 ;	3 3	42	21	21	24	3	21	4	0	3 1	10	1 9	5	3	2	1	1	1	10	5 5

Total AM Ped Trips = 41 Total Midday Ped Trips = 65 Total PM Ped Trips = 37 Total SAT Ped Trips = 17

Table 3
Estimated Peak Hour Person-Trip Generation Increments: Transit and Pedestrians South Brooklyn Marine Terminal
Future With-Action Condition

		Estimated	Person-Trips	S	Mode Spli	t (AM, PM	I, SAT)	Mode	Split (M	D)						Subv	vay											Bus					
Land Use	Weekday	Weekday	Weekday	Saturday	Subway/Ra	Bus	Walk	Subway/Ra	Due	Walk	Weel	kday A	AΜ	Wee	kday N	ID	Wee	kday P	PM	Satu	rday I	MD	Wee	ekday A	M	We	eekday N	1D	Wee	kday PN	1	Satu	ırday MD
	AM	MD	PM	MD	ilroad	Dus	waik	ilroad	Bus	Waik	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In (	Out	Total	In Out
Office	49	44	42	12	31.0%	5.0%	13.0%	31.0%	5.0%	13.0%	15	14	2	14	6	7	13	2	11	4	2	2	2	2	0	2	1	1	2	0	2	1	0 0
Warehouse	8	7	9	2	31.0%	5.0%	13.0%	31.0%	5.0%	13.0%	3	2	1	2	1	1	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0 0
Terminal Operations	26	43	26	10	31.0%	5.0%	13.0%	6.0%	6.0%	83.0%	8	8	0	3	1	1	8	0	8	1	0	0	1	1	0	3	1	1	1	0	1	1	0 0
TOTAL	83	93	76	24			TOTA	L NET NEW F	PERSON	-TRIPS =	26	23	2	18	9	9	24	3	21	5	3	2	4	4	0	5	3	3	4	0	3	1	1 1

Table 3
Estimated Peak Hour Person-Trip Generation Increments: Transit and Pedestrians South Brooklyn Marine Terminal
Future With-Action Condition

	Estimated Person-Trips			Mode Split (AM, PM, SAT)			Mode Split (MD)			Walk								Total Pedestrian Trips																
Land Use	Weekday	kday Weekday V	Weekday	Saturday	Subway/Ra	Puc	Walk	Subway/Ra	Ra Bus Walk	Walk	Weekday AM		Weekday MD		Weekday PM		Saturday MD		Weekday AM		Weekday MD		Weekday PM		M	Saturday MD		/ID						
	AM	MD	PM	MD	ilroad	Bus	Walk	ilroad		Wain	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	ln	Out	Total	In	Out	Total	In	Out	Total	In	Out
Office	49	44	42	12	31.0%	5.0%	13.0%	31.0%	5.0%	13.0%	6	6	1	6	3	3	5	1	4	2	1	1	24	21	3	21	10	11	20	3	17	6	3	3
Warehouse	8	7	9	2	31.0%	5.0%	13.0%	31.0%	5.0%	13.0%	1	1	0	1	1	0	1	0	1	0	0	0	4	3	1	4	2	2	4	1	3	1	1	0
Terminal Operations	26	43	26	10	31.0%	5.0%	13.0%	6.0%	6.0%	83.0%	3	3	0	35	18	18	3	0	3	8	4	4	12	12	0	40	20	20	12	0	12	10	5	5
TOTAL	83	93	76	24			TOTA	L NET NEW	PERSON-	TRIPS =	11	10	1	42	21	21	10	1	9	10	5	5	41	37	4	65	32	33	37	5	33	17	8	8

Daily Employees:	
Weekday	85
Saturday	20

### **Terminal Operations**

**Employee Arrival and Departure Distribution** 

									Trucks	Trucks
	,			Weekday	Saturday	Saturday	Saturday	Saturday	Weekday & Saturday	Weekday & Saturday
Time	In%	Out%	In	Out	In%	Out%	In	Out	In	Out
12-1 AM										
1-2 AM										
2-3 AM										
3-4 AM										
4-5 AM	20%		17		0%		0		1	1
5-6 AM	30%		26		40%		8		1	1
6-7 AM	20%		17		40%		8		0	0
7-8 AM	10%		9		20%		4		0	0
8-9 AM	10%		9		0%		0		1	1
9-10 AM	10%		9						2	2
10-11 AM									2	2
11-12 AM									2	2
12-1 PM	25%	25%	21	21	25%	25%	5	5		2
1-2 PM	25%	25%	21	21	25%	25%	5	5	2	2
2-3 PM									2	2
3-4 PM		20%		17		0%		0	0	0
4-5 PM		20%		17		40%		8	0	0
5-6 PM		30%		26		40%		8	0	0
6-7 PM		20%		17		20%		4	0	0
7-8 PM		10%		9		0%		0	0	0
8-9 PM		0%		0					0	0
9-10 PM		0%		0					0	0
10-11 PM										
11-12 PM										
-									15	1:

Peak Hours