

Appendix F

Greenhouse Gas Emissions Summary Tables

**Greenhouse Gas Emissions - Net
Worst Case - 2020 Net**

Unmitigated Greenhouse Gas Emissions by Year, metric tons of CO2e

Year	Capped										Uncapped						Total
	Construction	Net Mobile	Yard trucks	Generator	Forklifts	Electricity	Water	Natural gas	Solar	Subtotal	Construction Refrigerants and Waste	Waste	Refrigerants	Land use change	Sequestration	Subtotal	
2020	18,770	0	0	0	0	0	0	0	0	18,770	209	0	0	0	0	209	18,979
2021	22,198	22,089	813	30	29	6,097	133	0	0	51,390	209	2,175	291	131	-13	2,793	54,183
2022	23,363	42,984	1,625	61	58	11,672	267	545	0	80,574	209	4,349	583	262	-25	5,377	85,951
2023	23,511	62,716	2,438	91	87	18,583	445	1,089	0	108,959	209	6,524	874	392	-38	7,961	116,920
2024	22,113	81,169	3,250	121	117	24,799	623	1,634	0	133,825	206	8,698	1,166	523	-50	10,543	144,369
2025	16,408	0	4,053	151	145	36,149	953	2,723	0	60,583	102	10,847	1,454	652	-63	12,992	73,575
2026	12,424	103,414	4,371	163	157	40,666	1,283	3,080	0	165,558	141	11,698	1,568	704	-68	14,043	179,601
2027	11,692	113,746	4,689	175	168	41,689	1,458	3,259	0	176,875	144	12,549	1,682	755	-72	15,057	191,932
2028	12,000	123,988	5,016	187	180	41,168	1,562	3,438	0	187,539	141	13,423	1,799	807	-77	16,093	203,632
2029	11,452	133,464	5,334	199	191	40,436	1,667	3,617	0	196,360	141	14,274	1,913	858	-82	17,104	213,464
2030	12,311	142,515	5,652	211	203	40,169	1,817	3,795	0	206,672	141	15,125	2,027	910	-87	18,116	224,788
2031	10,610	151,159	5,970	222	214	39,884	1,986	3,974	0	214,020	141	15,976	2,141	961	-92	19,127	233,146
2032	9,993	159,397	6,288	234	226	39,257	2,156	4,153	0	221,703	141	16,827	2,255	1,012	-97	20,138	241,841
2033	7,451	167,226	6,606	246	237	38,288	2,326	4,331	0	226,711	141	17,678	2,369	1,063	-102	21,149	247,860
2034	7,430	174,639	6,924	258	248	36,329	2,437	4,510	0	232,775	118	18,529	2,483	1,114	-107	22,137	254,912
2035	0	261,099	7,172	267	257	34,147	2,548	4,689	0	310,179	166	19,193	2,572	1,154	-111	22,974	333,153
Buildout																	

Mitigated Greenhouse Gas Emissions by Year, metric tons of CO2e

Year	Capped										Uncapped						Total
	Construction	Net Mobile	Yard trucks	Generator	Forklifts	Electricity	Water	Natural gas	Solar	Subtotal	Construction Refrigerants and Waste	Waste	Refrigerants	Land use change	Sequestration	Subtotal	
2020	18,770	0	0	0	0	0	0	0	0	18,770	192	0	0	0	0	192	18,962
2021	22,198	20,982	813	32	29	5,487	119	0	-179	49,483	192	544	291	131	-13	1,145	50,628
2022	23,363	41,248	1,625	65	58	10,505	239	0	-357	76,746	192	1,087	583	262	-25	2,098	78,844
2023	23,511	60,829	2,438	97	87	16,725	398	0	-595	103,490	192	1,631	874	392	-38	3,051	106,541
2024	22,113	79,602	3,250	130	117	22,319	557	0	-834	127,254	190	2,175	1,166	523	-50	4,003	131,257
2025	16,408	0	4,053	162	145	32,535	853	0	-1,276	52,880	85	2,712	1,454	652	-63	4,840	57,720
2026	12,424	102,643	4,371	174	157	36,088	1,148	0	-1,705	155,300	124	2,924	1,568	704	-68	5,252	160,553
2027	11,692	112,971	4,689	187	168	36,779	1,304	0	-1,931	165,860	127	3,137	1,682	755	-72	5,628	171,488
2028	12,000	123,218	5,016	200	180	36,207	1,398	0	-2,068	176,151	124	3,356	1,799	807	-77	6,009	182,160
2029	11,452	132,710	5,334	213	191	35,461	1,492	0	-2,204	184,649	124	3,569	1,913	858	-82	6,382	191,031
2030	12,311	141,787	5,652	225	203	35,096	1,626	0	-2,398	194,501	124	3,781	2,027	910	-87	6,755	201,256
2031	10,610	150,466	5,970	238	214	34,716	1,778	0	-2,618	201,374	124	3,994	2,141	961	-92	7,128	208,501
2032	9,993	158,748	6,288	251	226	34,056	1,929	0	-2,838	208,653	124	4,207	2,255	1,012	-97	7,501	216,154
2033	7,451	166,632	6,606	263	237	33,116	2,081	0	-3,059	213,328	124	4,419	2,369	1,063	-102	7,874	221,202
2034	7,430	174,108	6,924	276	248	31,366	2,181	0	-3,203	219,330	101	4,632	2,483	1,114	-107	8,223	227,553
2035	0	0	7,172	286	257	29,432	2,280	0	-3,386	36,040	149	4,798	2,572	1,154	-111	8,563	44,603
Buildout																	

Reductions from Mitigation, metric tons of CO2e

Year	Capped										Uncapped						Total
	Construction	Net Mobile	Yard trucks	Generator	Forklifts	Electricity	Water	Natural gas	Solar	Subtotal	Construction Refrigerants and Waste	Waste	Refrigerants	Land use change	Sequestration	Subtotal	
2020	0	0	0	0	0	0	0	0	0	0	-17	0	0	0	0	-17	-17
2021	0	-1,107	0	2	0	-610	-14	0	-179	-1,907	-17	-1,631	0	0	0	-1,648	-3,555
2022	0	-1,736	0	4	0	-1,167	-28	-545	-357	-3,828	-17	-3,262	0	0	0	-3,279	-7,107
2023	0	-1,886	0	6	0	-1,858	-47	-1,089	-595	-5,469	-17	-4,893	0	0	0	-4,910	-10,379
2024	0	-1,567	0	8	0	-2,480	-65	-1,634	-834	-6,571	-17	-6,524	0	0	0	-6,540	-13,111
2025	0	0	0	11	0	-3,614	-100	-2,723	-1,276	-7,703	-17	-8,135	0	0	0	-8,152	-15,855
2026	0	-771	0	11	0	-4,578	-135	-3,080	-1,705	-10,258	-17	-8,773	0	0	0	-8,790	-19,048
2027	0	-775	0	12	0	-4,909	-153	-3,259	-1,931	-11,015	-17	-9,412	0	0	0	-9,428	-20,444
2028	0	-770	0	13	0	-4,961	-164	-3,438	-2,068	-11,388	-17	-10,067	0	0	0	-10,084	-21,472
2029	0	-754	0	14	0	-4,975	-175	-3,617	-2,204	-11,710	-17	-10,706	0	0	0	-10,723	-22,433
2030	0	-728	0	15	0	-5,073	-191	-3,795	-2,398	-12,171	-17	-11,344	0	0	0	-11,361	-23,531
2031	0	-693	0	16	0	-5,168	-209	-3,974	-2,618	-12,646	-17	-11,982	0	0	0	-11,999	-24,645
2032	0	-648	0	16	0	-5,201	-227	-4,153	-2,838	-13,050	-17	-12,620	0	0	0	-12,637	-25,687
2033	0	-594	0	17	0	-5,172	-244	-4,331	-3,059	-13,383	-17	-13,258	0	0	0	-13,275	-26,658
2034	0	-531	0	18	0	-4,964	-256	-4,510	-3,203	-13,445	-17	-13,897	0	0	0	-13,913	-27,359
2035	0	-261,099	0	19	0	-4,715	-268	-4,689	-3,386	-274,138	-17	-14,395	0	0	0	-14,411	-288,550
Buildout																	

Unmitigated Greenhouse Gas Emissions for Buildout

Source	Greenhouse Gas, tons per year					Total, metric tons CO2e
	CO2	CH4	N2O	HFCs	BC	
Net Mobile	8,147	0.00	0.00	0.00	0.01	7,391
Yard trucks	270,635	7.54	34.24	0.00	8.93	261,099
Generator	7,906	0.00	0.00	0.00	0.00	7,172
Forklifts	267	0.01	0.00	0.00	0.04	267
Electricity	276	0.00	0.00	0.00	0.01	257
Electricity	37,503	38.73	98.23	-	-	34,147
Water	2,809	-	-	-	-	2,548
Natural gas	4,942	2.37	26.99	-	0.00	4,689
Construction Refrigerants and Waste	115	0.00	0.00	0.06	0.00	166
Waste	8,540	504.67	0.00	-	-	19,193
Refrigerants	0	0.00	0.00	1.89	0.00	2,572
Land use change	1,272	0.00	0.00	0.00	0.00	1,154
Sequestration	-122	0.00	0.00	0.00	0.00	-111
Total	342,289	553.32	159.46	1.95	8.99	340,544
Non-mobile emissions	71,654	545.78	125.22	1.95	0.06	79,445
Subtotal, capped	332,484	48.65	159.46	0.00	8.99	317,570
Subtotal, uncapped	9,804	504.67	0.00	1.95	0.00	22,974

**Greenhouse Gas Emissions - Net
Net Emissions**

Unmitigated Greenhouse Gas Emissions by Year, metric tons of CO2e

Year	Capped										Uncapped						Total
	Construction	Net Mobile	Yard trucks	Generator	Forklifts	Electricity	Water	Natural gas	Solar	Subtotal	Construction Refrigerants and Waste	Waste	Refrigerants	Land use change	Sequestration	Subtotal	
2020	18,770	0	0	0	0	0	0	0	0	18,770	209	0	0	0	0	209	18,979
2021	22,198	22,089	813	30	29	6,097	133	0	0	51,390	209	2,175	291	131	-13	2,793	54,183
2022	23,363	42,984	1,625	61	58	11,672	267	545	0	80,574	209	4,349	583	262	-25	5,377	85,951
2023	23,511	62,716	2,438	91	87	18,583	445	1,089	0	108,959	209	6,524	874	392	-38	7,961	116,920
2024	22,113	81,169	3,250	121	117	24,799	623	1,634	0	133,825	206	8,698	1,166	523	-50	10,543	144,369
2025	16,408	97,097	4,053	151	145	36,149	953	2,723	0	157,680	102	10,847	1,454	652	-63	12,992	170,672
2026	12,424	103,414	4,371	163	157	40,666	1,283	3,080	0	165,558	141	11,698	1,568	704	-68	14,043	179,601
2027	11,692	113,746	4,689	175	168	41,689	1,458	3,259	0	176,875	144	12,549	1,682	755	-72	15,057	191,932
2028	12,000	123,988	5,016	187	180	41,168	1,562	3,438	0	187,539	141	13,423	1,799	807	-77	16,093	203,632
2029	11,452	133,464	5,334	199	191	40,436	1,667	3,617	0	196,360	141	14,274	1,913	858	-82	17,104	213,464
2030	12,311	142,515	5,652	211	203	40,169	1,817	3,795	0	206,672	141	15,125	2,027	910	-87	18,116	224,788
2031	10,610	151,159	5,970	222	214	39,884	1,986	3,974	0	214,020	141	15,976	2,141	961	-92	19,127	233,146
2032	9,993	159,397	6,288	234	226	39,257	2,156	4,153	0	221,703	141	16,827	2,255	1,012	-97	20,138	241,841
2033	7,451	167,226	6,606	246	237	38,288	2,326	4,331	0	226,711	141	17,678	2,369	1,063	-102	21,149	247,860
2034	7,430	174,639	6,924	258	248	36,329	2,437	4,510	0	232,775	118	18,529	2,483	1,114	-107	22,137	254,912
2035	0	179,355	7,172	267	257	34,147	2,548	4,689	0	228,435	166	19,193	2,572	1,154	-111	22,974	251,409
Buildout																	

Mitigated Greenhouse Gas Emissions by Year, metric tons of CO2e

Year	Capped										Uncapped						Total
	Construction	Net Mobile	Yard trucks	Generator	Forklifts	Electricity	Water	Natural gas	Solar	Subtotal	Construction Refrigerants and Waste	Waste	Refrigerants	Land use change	Sequestration	Subtotal	
2020	18,770	0	0	0	0	0	0	0	0	18,770	192	0	0	0	0	192	18,962
2021	22,198	20,982	813	32	29	5,487	119	0	-179	49,483	192	544	291	131	-13	1,145	50,628
2022	23,363	41,248	1,625	65	58	10,505	239	0	-357	76,746	192	1,087	583	262	-25	2,098	78,844
2023	23,511	60,829	2,438	97	87	16,725	398	0	-595	103,490	192	1,631	874	392	-38	3,051	106,541
2024	22,113	79,602	3,250	130	117	22,319	557	0	-834	127,254	190	2,175	1,166	523	-50	4,003	131,257
2025	16,408	96,308	4,053	162	145	32,535	853	0	-1,276	149,188	85	2,712	1,454	652	-63	4,840	154,028
2026	12,424	102,643	4,371	174	157	36,088	1,148	0	-1,705	155,300	124	2,924	1,568	704	-68	5,252	160,553
2027	11,692	112,971	4,689	187	168	36,779	1,304	0	-1,931	165,860	127	3,137	1,682	755	-72	5,628	171,488
2028	12,000	123,218	5,016	200	180	36,207	1,398	0	-2,068	176,151	124	3,356	1,799	807	-77	6,009	182,160
2029	11,452	132,710	5,334	213	191	35,461	1,492	0	-2,204	184,649	124	3,569	1,913	858	-82	6,382	191,031
2030	12,311	141,787	5,652	225	203	35,096	1,626	0	-2,398	194,501	124	3,781	2,027	910	-87	6,755	201,256
2031	10,610	150,466	5,970	238	214	34,716	1,778	0	-2,618	201,374	124	3,994	2,141	961	-92	7,128	208,501
2032	9,993	158,748	6,288	251	226	34,056	1,929	0	-2,838	208,653	124	4,207	2,255	1,012	-97	7,501	216,154
2033	7,451	166,632	6,606	263	237	33,116	2,081	0	-3,059	213,328	124	4,419	2,369	1,063	-102	7,874	221,202
2034	7,430	174,108	6,924	276	248	31,366	2,181	0	-3,203	219,330	101	4,632	2,483	1,114	-107	8,223	227,553
2035	0	178,798	7,172	286	257	29,432	2,280	0	-3,386	214,839	149	4,798	2,572	1,154	-111	8,563	223,402
Buildout																	

0.1317

Reductions from Mitigation, metric tons of CO2e

Year	Capped										Uncapped						Total
	Construction	Net Mobile	Yard trucks	Generator	Forklifts	Electricity	Water	Natural gas	Solar	Subtotal	Construction Refrigerants and Waste	Waste	Refrigerants	Land use change	Sequestration	Subtotal	
2020	0	0	0	0	0	0	0	0	0	0	-17	0	0	0	0	-17	-17
2021	0	-1,107	0	2	0	-610	-14	0	-179	-1,907	-17	-1,631	0	0	0	-1,648	-3,555
2022	0	-1,736	0	4	0	-1,167	-28	-545	-357	-3,828	-17	-3,262	0	0	0	-3,279	-7,107
2023	0	-1,886	0	6	0	-1,858	-47	-1,089	-595	-5,469	-17	-4,893	0	0	0	-4,910	-10,379
2024	0	-1,567	0	8	0	-2,480	-65	-1,634	-834	-6,571	-17	-6,524	0	0	0	-6,540	-13,111
2025	0	-789	0	11	0	-3,614	-100	-2,723	-1,276	-8,492	-17	-8,135	0	0	0	-8,152	-16,644
2026	0	-771	0	11	0	-4,578	-135	-3,080	-1,705	-10,258	-17	-8,773	0	0	0	-8,790	-19,048
2027	0	-775	0	12	0	-4,909	-153	-3,259	-1,931	-11,015	-17	-9,412	0	0	0	-9,428	-20,444
2028	0	-770	0	13	0	-4,961	-164	-3,438	-2,068	-11,388	-17	-10,067	0	0	0	-10,084	-21,472
2029	0	-754	0	14	0	-4,975	-175	-3,617	-2,204	-11,710	-17	-10,706	0	0	0	-10,723	-22,433
2030	0	-728	0	15	0	-5,073	-191	-3,795	-2,398	-12,171	-17	-11,344	0	0	0	-11,361	-23,531
2031	0	-693	0	16	0	-5,168	-209	-3,974	-2,618	-12,646	-17	-11,982	0	0	0	-11,999	-24,645
2032	0	-648	0	16	0	-5,201	-227	-4,153	-2,838	-13,050	-17	-12,620	0	0	0	-12,637	-25,687
2033	0	-594	0	17	0	-5,172	-244	-4,331	-3,059	-13,383	-17	-13,258	0	0	0	-13,275	-26,658
2034	0	-531	0	18	0	-4,964	-256	-4,510	-3,203	-13,445	-17	-13,897	0	0	0	-13,913	-27,359
2035	0	-557	0	19	0	-4,715	-268	-4,689	-3,386	-13,596	-17	-14,395	0	0	0	-14,411	-28,008
Buildout																	

Unmitigated Greenhouse Gas Emissions for Buildout

Source	Greenhouse Gas, tons per year					Total, metric tons CO2e
	CO2	CH4	N2O	HFCs	BC	
Construction	8,147	0.00	0.00	0.00	0.01	7,391
Net Mobile	189,778	7.97	21.62	0.00	1.69	179,355
Yard trucks	7,906	0.00	0.00	0.00	0.00	7,172
Generator	267	0.01	0.00	0.00	0.04	267
Forklifts	276	0.00	0.00	0.00	0.01	257
Electricity	37,503	38.73	98.23	-	-	34,147
Water	2,809	-	-	-	-	2,548
Natural gas	4,942	2.37	26.99	-	0.00	4,689
Construction Refrigerants and Waste	115	0.00	0.00	0.06	0.00	166
Waste	8,540	504.67	0.00	-	-	19,193
Refrigerants	0	0.00	0.00	1.89	0.00	2,572
Land use change	1,272	0.00	0.00	0.00	0.00	1,154
Sequestration	-122	0.00	0.00	0.00	0.00	-111
Total	261,432	553.76	146.84	1.95	1.75	258,800
Non-mobile emissions	71,654	545.78	125.22	1.95	0.06	79,445
Subtotal, capped	251,627	49.08	146.84	0.00	1.75	235,826
Subtotal, uncapped	9,804	504.67	0.00	1.95	0.00	22,974

World Logistics Center
Greenhouse Gas Emissions
Net Mobile EV

Mitigated Greenhouse Gas Emissions by Year, metric tons of CO2e

Year	Capped										Uncapped					Total	
	Construction	Mobile	Yard trucks	Generator	Forklifts	Electricity	Water	Natural gas	Solar	Subtotal	Construction Refrigerants and Waste	Waste	Refrigerants	Land use change	Sequestration		Subtotal
2020	18,770	0	0	0	0	0	0	0	0	18,770	192	0	0	0	0	192	18,962
2021	22,198	20,982	813	32	29	5,634	119	0	-179	49,629	192	544	291	131	-13	1,145	50,774
2022	23,363	41,248	1,625	65	58	10,785	239	0	-357	77,027	192	1,087	583	262	-25	2,098	79,125
2023	23,511	60,829	2,438	97	87	17,172	398	0	-595	103,937	192	1,631	874	392	-38	3,051	106,988
2024	22,113	79,602	3,250	130	117	22,915	557	0	-834	127,851	190	2,175	1,166	523	-50	4,003	131,854
2025	16,408	94,618	4,053	162	145	33,404	853	0	-1,276	148,367	85	2,712	1,454	652	-63	4,840	153,208
2026	12,424	102,528	4,371	174	157	40,224	1,148	0	-1,705	159,322	124	2,924	1,568	704	-68	5,252	164,575
2027	11,692	112,913	4,689	187	168	42,353	1,304	0	-1,931	171,376	127	3,137	1,682	755	-72	5,628	177,004
2028	12,000	123,228	5,016	200	180	42,411	1,398	0	-2,068	182,365	124	3,356	1,799	807	-77	6,009	188,374
2029	11,452	132,810	5,334	213	191	42,184	1,492	1	-2,204	191,474	124	3,569	1,913	858	-82	6,382	197,855
2030	12,311	141,992	5,652	225	203	42,583	1,626	1	-2,398	202,194	124	3,781	2,027	910	-87	6,755	208,949
2031	10,610	150,778	5,970	238	214	42,956	1,778	1	-2,618	209,926	124	3,994	2,141	961	-92	7,128	217,054
2032	9,993	159,165	6,288	251	226	42,870	1,929	1	-2,838	217,884	124	4,207	2,255	1,012	-97	7,501	225,385
2033	7,451	167,154	6,606	263	237	42,326	2,081	1	-3,059	223,060	124	4,419	2,369	1,063	-102	7,874	230,934
2034	7,430	174,742	6,924	276	248	40,453	2,181	1	-3,203	229,051	101	4,632	2,483	1,114	-107	8,223	237,274
2035	7,391	172,356	7,172	286	257	38,279	2,280	1	-3,386	224,635	149	4,798	2,572	1,154	-111	8,563	233,198