

Construction Calcs
 Daily (Unmitigated)Annual (Unmitigated)Daily (Mitigated)Annual (Mitigated)
 Summer Winter

Off-Road Equipment

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
2023	Grubbing\Land Clearing	3.988	3.340	32.12	30.08	0.053	1.353	1.245			5,414	0.220	0.044			5,432
2023	Grading Excavation	3.228	2.698	23.10	27.75	0.043	1.071	0.986			4,257	0.173	0.035			4,271
2023	Paving	1.564	1.307	10.63	12.35	0.020	0.498	0.458			1,888	0.077	0.015			1,894
2023	Drainage\Utilities\Subgrade	1.294	1.087	10.19	9.946	0.019	0.446	0.411			2,078	0.084	0.017			2,085

Dust From Material Movement

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
Total																
2023	Grubbing\Land Clearing								7.613	3.482						
2023	Grading Excavation								0.663	0.072						
Haul Road Grading																
2023	Grubbing\Land Clearing								1.591	0.172						
2023	Grading Excavation								0.663	0.072						
Earth Truck Bulldozing																
2023	Grubbing\Land Clearing								6.022	3.310						
Truck Loading																
2023	Grubbing\Land Clearing								0.000	0.000						

2023	Grading Excavation									0.000	0.000					
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Demolition

No emissions from Demolition.

Mobile Exhaust

Year	Construction Phase															
Total		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.160	0.137	0.109	2.096	0.000	0.000	0.000	0.019	0.000	353.8	0.015	0.012	0.001	1.542	359.3
2023	Grading Excavation	0.239	0.206	0.163	3.144	0.000	0.000	0.000	0.028	0.000	530.7	0.023	0.018	0.002	2.313	539.0
2023	Paving	0.146	0.126	0.100	1.921	0.000	0.000	0.000	0.017	0.000	324.3	0.014	0.011	0.001	1.413	329.4
2023	Drainage\Utilities\Subgrade	0.080	0.069	0.054	1.048	0.000	0.000	0.000	0.009	0.000	176.9	0.008	0.006	0.001	0.771	179.7
Trips		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.122	0.118	0.024	0.271	0.000	0.000	0.000			5.540	0.006	0.003			6.477
2023	Grading Excavation	0.183	0.178	0.036	0.406	0.000	0.000	0.000			8.310	0.009	0.004			9.715
2023	Paving	0.112	0.109	0.022	0.248	0.000	0.000	0.000			5.078	0.005	0.002			5.937
2023	Drainage\Utilities\Subgrade	0.061	0.059	0.012	0.135	0.000	0.000	0.000			2.770	0.003	0.001			3.238
VMT		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.038	0.019	0.085	1.825	0.000	0.000	0.000	0.019	0.000	348.3	0.009	0.009	0.001	1.542	352.9
2023	Grading Excavation	0.057	0.028	0.128	2.738	0.000	0.000	0.000	0.028	0.000	522.4	0.014	0.014	0.002	2.313	529.3
2023	Paving	0.035	0.017	0.078	1.673	0.000	0.000	0.000	0.017	0.000	319.3	0.009	0.009	0.001	1.413	323.5

2023	Drainage\Utilities\Subgrade	0.019	0.009	0.043	0.913	0.000	0.000	0.000	0.009	0.000	174.1	0.005	0.005	0.001	0.771	176.4
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On-Road Fugitive Dust

Year	Construction Phase															
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Total		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.284	0.071						
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2023	Grading Excavation								0.426	0.107						
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2023	Paving								0.261	0.065						
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2023	Drainage\Utilities\Subgrade								0.142	0.036						
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Paved		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.284	0.071						
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2023	Grading Excavation								0.426	0.107						
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2023	Paving								0.261	0.065						
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2023	Drainage\Utilities\Subgrade								0.142	0.036						
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Unpaved		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.000	0.000						
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2023	Grading Excavation								0.000	0.000						
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2023	Paving								0.000	0.000						
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2023	Drainage\Utilities\Subgrade								0.000	0.000						
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Architectural Coatings

No emissions from Architectural Coatings.

Paving

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
2023	Paving		0.000													

Electricity

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
2023	N/A										0.000	0.000	0.000			0.000

Total Emissions by Construction Phase

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
2023	Grubbing\Land Clearing	4.147	3.478	32.23	32.18	0.053	1.353	1.245	7.916	3.553	5,768	0.235	0.056	0.001	1.542	5,792
2023	Grading Excavation	3.467	2.904	23.27	30.89	0.043	1.071	0.986	1.117	0.178	4,788	0.196	0.053	0.002	2.313	4,810
2023	Drainage\Utilities\Subgrade	1.374	1.155	10.25	10.99	0.019	0.446	0.411	0.152	0.036	2,255	0.092	0.023	0.001	0.771	2,265
2023	Paving	1.711	1.433	10.73	14.28	0.020	0.498	0.458	0.278	0.065	2,212	0.091	0.026	0.001	1.413	2,224
2023	N/A (Electricity)										0.000	0.000	0.000			0.000

Emissions by Day

Year	Season	Construction Phases	Dates
2023	Summer	Site Preparation	4/17/2023–4/30/2023
2023	Summer	Grading	5/1/2023–6/16/2023
2023	Summer		6/17/2023–7/2/2023

Year	Season	Construction Phases	Dates
2023	Summer	Trenching	6/19/2023–6/30/2023
2023	Summer	Paving	7/3/2023–8/15/2023

Emissions by Calculation Type

Year	Calculation Type
2023	Daily - Summer (Max)
2023	Annual (lb)
2023	Average Daily

Construction Calcs
Annual (Unmitigated)

Pounds

Off-Road Equipment

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	39.88	33.40	321.2	300.8	0.528	13.53	12.45			54,138	2.196	0.439			54,324
2023	Grading Excavation	113.0	94.42	808.6	971.1	1.505	37.50	34.50			148,989	6.044	1.209			149,500
2023	Paving	50.06	41.82	340.3	395.3	0.626	15.94	14.66			60,407	2.450	0.490			60,615
2023	Drainage\Utilities\Subgrade	12.94	10.87	101.9	99.46	0.194	4.465	4.107			20,777	0.843	0.169			20,848

Dust From Material Movement

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
Total																
2023	Grubbing\Land Clearing								76.13	34.82						
2023	Grading Excavation								23.20	2.505						

Haul Road Grading		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								15.91	1.718						
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2023	Grading Excavation								23.20	2.505						
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Earth Truck Bulldozing		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								60.22	33.10						
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Truck Loading		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.000	0.000						
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2023	Grading Excavation								0.000	0.000						
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Demolition

No emissions from Demolition.

Mobile Exhaust

Year	Construction Phase
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Total		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	1.349	1.221	1.204	15.80	0.000	0.000	0.000	0.189	0.000	3,221	0.161	0.121	0.005	6.654	3,268
2023	Grading Excavation	7.080	6.410	6.320	82.94	0.000	0.000	0.000	0.993	0.000	16,911	0.844	0.635	0.024	34.93	17,157
2023	Paving	3.956	3.581	3.531	46.34	0.000	0.000	0.000	0.555	0.000	9,449	0.471	0.355	0.014	19.52	9,586
2023	Drainage\Utilities\Subgrade	0.674	0.610	0.602	7.899	0.000	0.000	0.000	0.095	0.000	1,611	0.080	0.061	0.002	3.327	1,634
Trips		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	1.065	1.032	0.258	3.314	0.000	0.000	0.000			56.58	0.066	0.026			66.11
2023	Grading Excavation	5.590	5.417	1.354	17.40	0.000	0.000	0.000			297.0	0.347	0.139			347.1
2023	Paving	3.124	3.027	0.757	9.720	0.000	0.000	0.000			166.0	0.194	0.078			193.9
2023	Drainage\Utilities\Subgrade	0.532	0.516	0.129	1.657	0.000	0.000	0.000			28.29	0.033	0.013			33.06
VMT		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.284	0.189	0.946	12.48	0.000	0.000	0.000	0.189	0.000	3,165	0.095	0.095	0.005	6.654	3,202
2023	Grading Excavation	1.490	0.993	4.965	65.54	0.000	0.000	0.000	0.993	0.000	16,614	0.497	0.497	0.024	34.93	16,809

2023	Paving	0.832	0.555	2.774	36.62	0.000	0.000	0.000	0.555	0.000	9,283	0.277	0.277	0.014	19.52	9,392
2023	Drainage\Utilities\Subgrade	0.142	0.095	0.473	6.242	0.000	0.000	0.000	0.095	0.000	1,582	0.047	0.047	0.002	3.327	1,601

On-Road Fugitive Dust

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
Total																
2023	Grubbing\Land Clearing								2.771	0.693						
2023	Grading Excavation								14.55	3.637						
2023	Paving								8.128	2.032						
2023	Drainage\Utilities\Subgrade								1.386	0.346						
Paved																
2023	Grubbing\Land Clearing								2.771	0.693						
2023	Grading Excavation								14.55	3.637						
2023	Paving								8.128	2.032						

2023	Drainage\Utilities\Subgrade									1.386	0.346						
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Unpaved		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
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2023	Grubbing\Land Clearing								0.000	0.000							
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2023	Grading Excavation								0.000	0.000							
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2023	Paving								0.000	0.000							
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2023	Drainage\Utilities\Subgrade								0.000	0.000							
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Architectural Coatings

No emissions from Architectural Coatings.

Paving

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e	
2023	Paving		0.000														

Electricity

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
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2023	N/A										0.000	0.000	0.000			0.000
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Total Emissions by Construction Phase

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	41.23	34.63	322.4	316.6	0.528	13.53	12.45	79.09	35.51	57,359	2.357	0.560	0.005	6.654	57,592
2023	Grading Excavation	120.0	100.8	814.9	1,054	1.505	37.50	34.50	38.74	6.142	165,900	6.887	1.844	0.024	34.93	166,656
2023	Drainage\Utilities\Subgrade	13.61	11.48	102.5	107.4	0.194	4.465	4.107	1.480	0.346	22,388	0.923	0.229	0.002	3.327	22,482
2023	Paving	54.02	45.40	343.8	441.7	0.626	15.94	14.66	8.683	2.032	69,856	2.922	0.845	0.014	19.52	70,201
2023	N/A (Electricity)										0.000	0.000	0.000			0.000

Emissions by Day

Year	Season	Construction Phases	Dates
2023	Summer	Site Preparation	4/17/2023–4/30/2023
2023	Summer	Grading	5/1/2023–6/16/2023
2023	Summer		6/17/2023–7/2/2023

Year	Season	Construction Phases	Dates
2023	Summer	Trenching	6/19/2023–6/30/2023
2023	Summer	Paving	7/3/2023–8/15/2023

Emissions by Calculation Type

Year	Calculation Type
2023	Daily - Summer (Max)
2023	Annual (lb)
2023	Average Daily

Construction Calcs
Annual (Unmitigated)

Tons

Off-Road Equipment

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.020	0.017	0.161	0.150	< 0.0005	0.007	0.006			27.07	0.001	< 0.0005			27.16
2023	Grading Excavation	0.056	0.047	0.404	0.486	0.001	0.019	0.017			74.49	0.003	0.001			74.75
2023	Paving	0.025	0.021	0.170	0.198	< 0.0005	0.008	0.007			30.20	0.001	< 0.0005			30.31
2023	Drainage\Utilities\Subgrade	0.006	0.005	0.051	0.050	< 0.0005	0.002	0.002			10.39	< 0.0005	< 0.0005			10.42

Dust From Material Movement

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
Total																
2023	Grubbing\Land Clearing								0.038	0.017						
2023	Grading Excavation								0.012	0.001						

Haul Road Grading		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.008	0.001						
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2023	Grading Excavation								0.012	0.001						
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Earth Truck Bulldozing		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.030	0.017						
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Truck Loading		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.000	0.000						
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2023	Grading Excavation								0.000	0.000						
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Demolition

No emissions from Demolition.

Mobile Exhaust

Year	Construction Phase															
Total		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.001	0.001	0.001	0.008	0.000	0.000	0.000	< 0.0005	0.000	1.611	< 0.0005	< 0.0005	< 0.0005	0.003	1.634
2023	Grading Excavation	0.004	0.003	0.003	0.041	0.000	0.000	0.000	< 0.0005	0.000	8.456	< 0.0005	< 0.0005	< 0.0005	0.017	8.578
2023	Paving	0.002	0.002	0.002	0.023	0.000	0.000	0.000	< 0.0005	0.000	4.724	< 0.0005	< 0.0005	< 0.0005	0.010	4.793
2023	Drainage\Utilities\Subgrade	< 0.0005	< 0.0005	< 0.0005	0.004	0.000	0.000	0.000	< 0.0005	0.000	0.805	< 0.0005	< 0.0005	< 0.0005	0.002	0.817
Trips		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.001	0.001	< 0.0005	0.002	0.000	0.000	0.000			0.028	< 0.0005	< 0.0005			0.033
2023	Grading Excavation	0.003	0.003	0.001	0.009	0.000	0.000	0.000			0.149	< 0.0005	< 0.0005			0.174
2023	Paving	0.002	0.002	< 0.0005	0.005	0.000	0.000	0.000			0.083	< 0.0005	< 0.0005			0.097

2023	Drainage\Utilities\Subgrade	< 0.0005	< 0.0005	< 0.0005	0.001	0.000	0.000	0.000			0.014	< 0.0005	< 0.0005			0.017
VMT		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	< 0.0005	< 0.0005	< 0.0005	0.006	0.000	0.000	0.000	< 0.0005	0.000	1.582	< 0.0005	< 0.0005	< 0.0005	0.003	1.601
2023	Grading Excavation	0.001	< 0.0005	0.002	0.033	0.000	0.000	0.000	< 0.0005	0.000	8.307	< 0.0005	< 0.0005	< 0.0005	0.017	8.405
2023	Paving	< 0.0005	< 0.0005	0.001	0.018	0.000	0.000	0.000	< 0.0005	0.000	4.641	< 0.0005	< 0.0005	< 0.0005	0.010	4.696
2023	Drainage\Utilities\Subgrade	< 0.0005	< 0.0005	< 0.0005	0.003	0.000	0.000	0.000	< 0.0005	0.000	0.791	< 0.0005	< 0.0005	< 0.0005	0.002	0.800

On-Road Fugitive Dust

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing								0.001	< 0.0005						
2023	Grading Excavation								0.007	0.002						

2023	Paving									0.004	0.001						
2023	Drainage\Utilities\Subgrade									0.001	< 0.0005						
Paved		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e	
2023	Grubbing\Land Clearing									0.001	< 0.0005						
2023	Grading Excavation									0.007	0.002						
2023	Paving									0.004	0.001						
2023	Drainage\Utilities\Subgrade									0.001	< 0.0005						
Unpaved		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e	
2023	Grubbing\Land Clearing									0.000	0.000						
2023	Grading Excavation									0.000	0.000						
2023	Paving									0.000	0.000						
2023	Drainage\Utilities\Subgrade									0.000	0.000						

Architectural Coatings

No emissions from Architectural Coatings.

Paving

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Paving		0.000													

Electricity

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	N/A										0.000	0.000	0.000			0.000

Total Emissions by Construction Phase

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.021	0.017	0.161	0.158	< 0.0005	0.007	0.006	0.040	0.018	28.68	0.001	< 0.0005	< 0.0005	0.003	28.80
2023	Grading Excavation	0.060	0.050	0.407	0.527	0.001	0.019	0.017	0.019	0.003	82.95	0.003	0.001	< 0.0005	0.017	83.33

2023	Drainage\Utilities\Subgrade	0.007	0.006	0.051	0.054	< 0.0005	0.002	0.002	0.001	< 0.0005	11.19	< 0.0005	< 0.0005	< 0.0005	0.002	11.24
2023	Paving	0.027	0.023	0.172	0.221	< 0.0005	0.008	0.007	0.004	0.001	34.93	0.001	< 0.0005	< 0.0005	0.010	35.10
2023	N/A (Electricity)										0.000	0.000	0.000			0.000

Emissions by Day

Year	Season	Construction Phases	Dates
2023	Summer	Site Preparation	4/17/2023–4/30/2023
2023	Summer	Grading	5/1/2023–6/16/2023
2023	Summer		6/17/2023–7/2/2023
2023	Summer	Trenching	6/19/2023–6/30/2023
2023	Summer	Paving	7/3/2023–8/15/2023

Emissions by Calculation Type

Year	Calculation Type
2023	Daily - Summer (Max)
2023	Annual (ton)
2023	Average Daily

Construction Calcs
Annual (Unmitigated)

Metric Tons

Off-Road Equipment

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
2023	Grubbing\Land Clearing	0.018	0.015	0.146	0.136	< 0.0005	0.006	0.006			24.56	0.001	< 0.0005			24.64
2023	Grading Excavation	0.051	0.043	0.367	0.440	0.001	0.017	0.016			67.58	0.003	0.001			67.81
2023	Paving	0.023	0.019	0.154	0.179	< 0.0005	0.007	0.007			27.40	0.001	< 0.0005			27.49
2023	Drainage\Utilities\Subgrade	0.006	0.005	0.046	0.045	< 0.0005	0.002	0.002			9.424	< 0.0005	< 0.0005			9.457

Dust From Material Movement

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
Total																
2023	Grubbing\Land Clearing								0.035	0.016						
2023	Grading Excavation								0.011	0.001						

Haul Road Grading		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.007	0.001						
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2023	Grading Excavation								0.011	0.001						
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Earth Truck Bulldozing		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.027	0.015						
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Truck Loading		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
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2023	Grubbing\Land Clearing								0.000	0.000						
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2023	Grading Excavation								0.000	0.000						
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Demolition

No emissions from Demolition.

Mobile Exhaust

Year	Construction Phase															
Total		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	0.001	0.001	0.001	0.007	0.000	0.000	0.000	< 0.0005	0.000	1.461	< 0.0005	< 0.0005	< 0.0005	0.003	1.482
2023	Grading Excavation	0.003	0.003	0.003	0.038	0.000	0.000	0.000	< 0.0005	0.000	7.671	< 0.0005	< 0.0005	< 0.0005	0.016	7.782
2023	Paving	0.002	0.002	0.002	0.021	0.000	0.000	0.000	< 0.0005	0.000	4.286	< 0.0005	< 0.0005	< 0.0005	0.009	4.348
2023	Drainage\Utilities\Subgrade	< 0.0005	< 0.0005	< 0.0005	0.004	0.000	0.000	0.000	< 0.0005	0.000	0.731	< 0.0005	< 0.0005	< 0.0005	0.002	0.741
Trips		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	< 0.0005	< 0.0005	< 0.0005	0.002	0.000	0.000	0.000			0.026	< 0.0005	< 0.0005			0.030
2023	Grading Excavation	0.003	0.002	0.001	0.008	0.000	0.000	0.000			0.135	< 0.0005	< 0.0005			0.157
2023	Paving	0.001	0.001	< 0.0005	0.004	0.000	0.000	0.000			0.075	< 0.0005	< 0.0005			0.088

2023	Drainage\Utilities\Subgrade	< 0.0005	< 0.0005	< 0.0005	0.001	0.000	0.000	0.000			0.013	< 0.0005	< 0.0005			0.015
VMT		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing	< 0.0005	< 0.0005	< 0.0005	0.006	0.000	0.000	0.000	< 0.0005	0.000	1.435	< 0.0005	< 0.0005	< 0.0005	0.003	1.452
2023	Grading Excavation	0.001	< 0.0005	0.002	0.030	0.000	0.000	0.000	< 0.0005	0.000	7.536	< 0.0005	< 0.0005	< 0.0005	0.016	7.625
2023	Paving	< 0.0005	< 0.0005	0.001	0.017	0.000	0.000	0.000	< 0.0005	0.000	4.211	< 0.0005	< 0.0005	< 0.0005	0.009	4.260
2023	Drainage\Utilities\Subgrade	< 0.0005	< 0.0005	< 0.0005	0.003	0.000	0.000	0.000	< 0.0005	0.000	0.718	< 0.0005	< 0.0005	< 0.0005	0.002	0.726

On-Road Fugitive Dust

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e
2023	Grubbing\Land Clearing								0.001	< 0.0005						
2023	Grading Excavation								0.007	0.002						

2023	Paving									0.004	0.001						
2023	Drainage\Utilities\Subgrade									0.001	< 0.0005						
Paved		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e	
2023	Grubbing\Land Clearing									0.001	< 0.0005						
2023	Grading Excavation									0.007	0.002						
2023	Paving									0.004	0.001						
2023	Drainage\Utilities\Subgrade									0.001	< 0.0005						
Unpaved		TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO ₂ e	
2023	Grubbing\Land Clearing									0.000	0.000						
2023	Grading Excavation									0.000	0.000						
2023	Paving									0.000	0.000						
2023	Drainage\Utilities\Subgrade									0.000	0.000						

Architectural Coatings

No emissions from Architectural Coatings.

Paving

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
2023	Paving		0.000													

Electricity

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
2023	N/A										0.000	0.000	0.000			0.000

Total Emissions by Construction Phase

Year	Construction Phase	TOG	ROG	NOx	CO	SO ₂	PM10E	PM2.5E	PM10D	PM2.5D	CO ₂	CH ₄	N ₂ O	HFC	R	CO _{2e}
2023	Grubbing\Land Clearing	0.019	0.016	0.146	0.144	< 0.0005	0.006	0.006	0.036	0.016	26.02	0.001	< 0.0005	< 0.0005	0.003	26.12
2023	Grading Excavation	0.054	0.046	0.370	0.478	0.001	0.017	0.016	0.018	0.003	75.25	0.003	0.001	< 0.0005	0.016	75.59

2023	Drainage\Utilities\Subgrade	0.006	0.005	0.047	0.049	< 0.0005	0.002	0.002	0.001	< 0.0005	10.15	< 0.0005	< 0.0005	< 0.0005	0.002	10.20
2023	Paving	0.025	0.021	0.156	0.200	< 0.0005	0.007	0.007	0.004	0.001	31.69	0.001	< 0.0005	< 0.0005	0.009	31.84
2023	N/A (Electricity)										0.000	0.000	0.000			0.000

Emissions by Day

Year	Season	Construction Phases	Dates
2023	Summer	Site Preparation	4/17/2023–4/30/2023
2023	Summer	Grading	5/1/2023–6/16/2023
2023	Summer		6/17/2023–7/2/2023
2023	Summer	Trenching	6/19/2023–6/30/2023
2023	Summer	Paving	7/3/2023–8/15/2023

Emissions by Calculation Type

Year	Calculation Type
2023	Daily - Summer (Max)
2023	Annual (metric ton)
2023	Average Daily