APPENDIX D

AIR QUALITY AND NOISE TECHNICAL REPORT

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Austin Bergstrom International Airport Expansion and Development Program (AEDP) Environmental Assessment
Noise & Air Quality Technical Report

HMMH Report No. 307330.001

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1. Introduction

Harris Miller Miller & Hanson Inc. (HMMH) is assisting KSA Engineers with aircraft noise and emissions evaluations for the Environmental Assessment (EA) related to the Airport Expansion and Development Program (AEDP) at Austin Bergstrom International Airport (ABIA, or AUS), pursuant to the National Environmental Policy Act (NEPA). The purpose of this technical memorandum is to present the noise and air quality assessment approach, input data, assumptions, and draft results. This memorandum will serve as Appendix D in the final EA document.

The Proposed Action for this EA, also known as the AEDP, is meant to meet the needs of airlines and passengers at AUS through improving the Barbara Jordan Terminal and enabling future airport expansion with utility and airfield infrastructure. Initial construction projects include:

- Optimizing the Barbara Jordan Terminal
- Building a midfield concourse and connecting underground tunnel
- Creating and relocating taxiways
- A new Central Utility Plant
- A new electrical substation
- Removing existing airfield structures

The EA will evaluate a total of six scenarios:

1. Existing Conditions (2019)
2. 2027 No-Action Alternative
3. 2027 Proposed Action (AEDP) Alternative
4. 2032 No-Action Alternative
5. 2032 Proposed Action (AEDP) Alternative
6. 2037 Forecast year[1]

[1] The 2037 modeling year is for informational purposes only.

The subsequent sections provide the methodology and model inputs for the noise and air quality analyses. Upon review and approval of the information in this technical memorandum, HMMH ran the FAA approved AEDT software model to estimate air quality and noise results from aircraft operations for the six modeling scenarios.

2. Analysis

The noise analysis for this EA will be conducted in accordance with Federal Aviation Administration (FAA) Order 1050.1F and its associated Environmental Desk Reference. These documents specify several requirements for evaluating noise impacts, including:

- Acceptable noise models to be used and the circumstances under which their use is required.
- The metrics to be used for characterizing the noise environment and quantifying impacts; and
- Thresholds of significance for determining whether the effects of an action would constitute a significant impact under NEPA.

For an action occurring on, or in the vicinity of a single airport, the Environmental Desk Reference directs the use of the latest version of the Aviation Environmental Design Tool (AEDT) for detailed noise modeling or another model, as approved by FAA. In this case, it is AEDT Version 3d.[2] All AEDT modeling conducted for this study will adhere to "*Guidance on Using the AEDT to Conduct Environmental modeling for FAA Actions Subject to NEPA*".[3] The model must be used to produce Day-Night Average Sound Level (DNL) contours of 65 dB, 70 dB, and 75 dB, and others as needed. FAA considers a DNL of 65 dB as the threshold below which all land uses are compatible.

FAA Orders 1050.1F and 5050.4B determine a significant noise impact to be a DNL increase of 1.5 dB or more at a noise-sensitive location with a DNL of 65 dB or higher. For example, an increase from 63.5 dB to 65.0 dB DNL within the same timeframe due to the Proposed Project would be considered a significant impact. If a noise increase is determined to be a significant impact to any of the surrounding noise sensitive properties, as defined in FAA Order 1050.1F, mitigation would be required.

The FAA and NEPA guidance prescribes that aircraft noise studies should use DNL, this is the metric adopted by FAA and Environmental Protection Agency (EPA) as the most appropriate long-term measure of airport noise exposure. DNL is determined by adding up the noise energy from all modeled aircraft activity at every individual point of a large array of grid points around an airport. In the DNL calculation, a 10-decibel weighting is applied to nighttime[4] operations.

Computer-generated estimates of DNL are often depicted as noise contours reflecting lines of equal exposure around an airport (much as topographic maps indicate contours of equal elevation). The contours usually reflect long-term (annual average) operating conditions, accounting for the average flights per day, how often each runway is used throughout the year, and where over the surrounding communities the aircraft normally fly.

The FAA requires that the following information must be disclosed for each modeled scenario that is analyzed:

- The number of residences or people exposed to DNL between 65 dB and 70 dB, 70 dB and 75 dB and greater than or equal to 75 dB, and the net increase or decrease in the number of people or residences exposed to those levels of noise.
- The location and number of noise sensitive uses in addition to residences (e.g., schools, hospitals, parks, recreation areas) exposed to DNL 65 dB or greater.

[2] Released March 29, 2021, https://aedt.faa.gov/3d_information.aspx
[3] Published September 12, 2016
[4] Nighttime is defined as 10 pm to 7 am in DNL

- The identification of noise sensitive areas exposed to DNL greater than or equal to 60 dB and are projected to experience a DNL increase of 3 dB or more, only when 1.5 dB DNL increases are predicted at noise sensitive areas with DNL of at least 65 dB.
- Discussion of the noise impact on noise sensitive areas exposed to DNL of at least 65 dB; and
- Mapping providing land use data, noise contours, and flight tracks for each scenario.
- If 1.5 dB DNL increases are predicted at noise sensitive areas with DNL of at least 65 dB, identification of noise sensitive areas exposed to DNL greater than or equal to 60 dB which may experience a DNL increase of 3 dB or more as a result of the Proposed Action.

3. Noise Modeling Methodology and Inputs

AEDT noise model inputs are developed under the following categories and are required to develop noise model results:

- Physical description of the airport layout
- Aircraft operations
- Aircraft noise and performance characteristics
- Runway utilization
- Aircraft maintenance runup activity
- Flight track geometry and usage
- Meteorological conditions
- Terrain data

3.1 Physical Description of the Airport Layout

AUS is located within Travis County, approximately five miles southeast of downtown Austin, TX. As shown in **Figure 1.**

Runway length, runway width, instrumentation, and declared distances do not directly affect noise calculations. However, these parameters may affect which aircraft might use a particular runway and under what conditions, and therefore how often a runway would be used relative to the other runways at the airport.

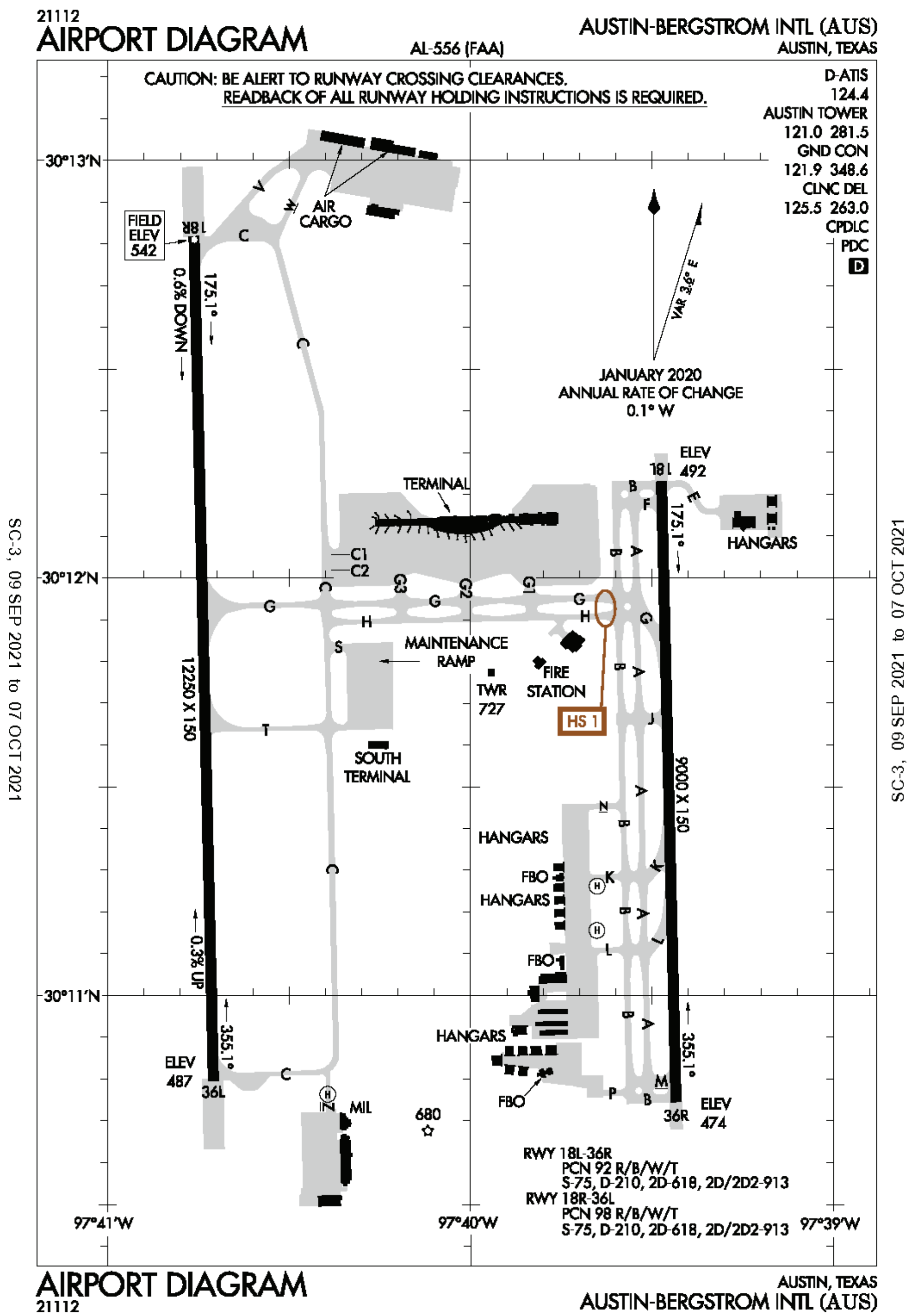
Table 1 provides the detailed parameters for each runway end. The proposed action does not include any changes or modifications to the Runways. However, the proposed action includes the creation and relocation of taxiways, which alter the taxi times for aircraft in both action alternative years.

Table 1. Runway Details

Sources: FAA Form 5010, accessed 8/1/2021

Runway End	Latitude (decimal degrees)	Longitude (decimal degrees)	Elevation (feet, MSL)	Displaced Landing Threshold (feet)	Glide Slope (degrees)	Threshold Crossing (feet, AGL)
18L	30.203830	-97.657891	491.6	0	3	74
18R	30.213616	-97.679365	541.4	0	3	60
36L	30.179943	-97.678475	487.3	0	3	60
36R	30.179091	-97.657243	473.6	0	3	59
H1	30.185475	-97.661006	541.5	N/A		
H2	30.187672	-97.661067	541.5			
H3	30.179486	-97.673208	479			

Figure 1. Existing AUS Airport Layout
Source: FAA



3.2 Aircraft Operations

HMMH obtained flight track data from the AUS noise and operations monitoring system (NOMS) for calendar year 2019. The radar data was then scaled to the FAA reported tower counts for 2019[5], and to the Terminal Area Forecast (TAF) for the EA forecast years 2027,2032, and 2037 as shown in **Table 2**.

Table 2. Modeled Annual Aircraft Operations

Sources: FAA TAF, RS&H 2021

Modeling Scenario	Air Carrier	Air Taxi	General Aviation		Military		Total
			Itinerant	Local	Itinerant	Local	
	180,504	15,895	43,971	685	4,782	239	246,076
2027 No Action	180,504	15,895	43,971	685	4,782	239	246,076
	209,788	16,801	44,755	690	4,782	240	277,056
2032 No Action	187,843	16,801	44,755	690	4,782	240	255,111
	241,106	17,761	45,553	803	4,782	134	310,139

Fleet changes provided by ABIA and RS&H were applied to account for retiring and new entrant aircraft through the future scenarios as provided in **Table 3**

Table 3. Fleet Retirements and Phase Outs for EA Forecast Years

AEDT Type in Baseline	AEDT Type Replacement in Forecast	2027 and 2032 Changes
717200	A220-100	50% replaced in 2027 100% replaced in 2032
737400	737700	100% replaced in 2027
747400	A350	50% replaced in 2027 100% replaced in 2032
A320-211	A320-271N	10% replaced in 2027 15% replaced in 2032
DC1010	777 Freighter	100% replaced in 2027
DC1030	777 Freighter	100% replaced in 2027
MD11GE	777 Freighter	50% replaced 2032
MD11PW	777 Freighter	50% replaced 2032
MD83	A220-300	100% replaced in 2027

[5] https://aspm.faa.gov/opsnet/sys/airport.asp

Operational changes, such as the addition of five new passenger international long-haul flights, were made based on the best available information. Other factors considered for growing baseline to the action scenarios also included:

- The FAA approved changes contained in the NEPA CATEX cargo expansions which are not included in the "planned growth" in the TAF. For the buildout year (2027) the aircraft listed in the CatEX were added. The proposed action calls for up to four (4) additional cargo operations to occur once the new cargo facility is constructed and fully operational. These operations are anticipated to be nighttime operations consisting of two 737-800s, one 767-300ER, and one 767-200.
- For the buildout year plus five (2032), all four of the additional cargo operations in 2027 are 767-300ER.
- By 2032, the existing airfield aircraft parking area cannot accommodate the unconstrained growth forecast in the 2032 TAF
    - To constrain the No Action alternative, RS&H calculated what the enplanements translates to flights. The difference between the Action and No Action in 2032, is about 1.3 million passengers higher in the TAF. This yields an Average of 122 enplanements, or 10,912 operations, which is 30 departures (60 operations) a day that cannot be accommodated.
    - The 2032 Action alternative was scaled down by 60 operations (30 arrivals / 30 departures); scaling was completed on only the air carrier flight to accommodate the TAF enplanements. No change to Air Taxi, General Aviation, or Military was applied to the 2032 Action Scenario.
- The 2037 Action alternative is the 2032 Action alternative scaled up to the 2037 TAF operations levels.

Table 4 through Table 8 present the Future Action and No Action Conditions cases of average daily operations by aircraft type for arrivals and departures for each modeling scenario. Note that general aviation circuit operations are representative of both general aviation and military circuit operations.

Table 4. Modeled Average Daily Itinerant Aircraft Operations for 2027 Action Conditions
Sources: AUS NOMS, HMMH

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
Air Carrier	717200	305	81	325	60	0	0	772
	737400	0	0	0	0	0	0	0
	737700	20,359	5,403	21,729	4,033	0	0	51,524
	737800	15,141	4,418	16,160	3,463	0	0	39,245
	747400	108	29	115	21	0	0	274
	777200	25	7	26	5	0	0	62
	7378MAX	236	63	252	47	0	0	598
	757PW	23	6	24	4	0	0	57
	757RR	311	83	332	62	0	0	787
	7673ER	0	232	0	232	0	0	463
	767CF6	0	232	0	232	0	0	463
	7773ER	458	122	489	91	0	0	1,160
	7878R	103	27	110	20	0	0	260
	A300-622R	627	166	669	124	0	0	1,586
	A319-131	7,852	2,084	8,380	1,556	0	0	19,872
	A320-211	4,510	1,197	4,813	893	0	0	11,412
	A320-232	6,907	1,833	7,371	1,368	0	0	17,479
	A320-271N	1,957	519	2,089	388	0	0	4,952
	A321-232	4,991	1,324	5,327	989	0	0	12,631
	A330-343	174	46	186	34	0	0	440
	A350-941	29	115	21	0	0	274	108
	CRJ9-ER	756	201	807	150	0	0	1,914
	DC1010	0	0	0	0	0	0	0
	DC1030	0	0	0	0	0	0	0
	EMB170	1,682	446	1,795	333	0	0	4,256
	EMB175	2,643	701	2,821	524	0	0	6,690
	EMB190	1,069	284	1,141	212	0	0	2,705
	MD11GE	162	43	173	32	0	0	411
	MD11PW	86	23	92	17	0	0	217
	MD83	0	0	0	0	0	0	0
Subtotal		70,593	19,659	75,341	14,911	0	0	180,504
Air Taxi	BD-700-1A10	64	10	59	15	0	0	148
	BD-700-1A11	29	5	27	7	0	0	68

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	CIT3	26	4	24	6	0	0	59
	CL600	730	115	674	170	0	0	1,690
	CL601	166	26	154	39	0	0	385
	CNA172	35	6	32	8	0	0	81
	CNA208	1,312	207	1,212	306	0	0	3,037
	CNA510	100	16	93	23	0	0	233
	CNA525C	81	13	75	19	0	0	187
	CNA55B	645	102	596	151	0	0	1,493
	CNA560U	106	17	98	25	0	0	245
	CNA560XL	598	94	553	140	0	0	1,386
	CNA680	547	86	506	128	0	0	1,267
	CNA750	710	112	656	166	0	0	1,644
	DHC6	325	51	301	76	0	0	753
	EMB145	58	9	54	14	0	0	135
	EMB14L	174	28	161	41	0	0	404
	FAL900EX	156	25	144	36	0	0	361
	G650ER	35	6	32	8	0	0	81
	GASEPV	38	6	35	9	0	0	88
	GIV	139	22	129	33	0	0	323
	GV	34	5	31	8	0	0	79
	IA1125	33	5	30	8	0	0	75
	LEAR35	607	96	561	142	0	0	1,406
	MU3001	116	18	107	27	0	0	269
Subtotal		6,864	1,084	6,345	1,603	0	0	15,895
Itinerant General Aviation	737700	23	1	23	1	0	0	49
	BD-700-1A10	120	7	120	7	0	0	254
	BD-700-1A11	33	2	33	2	0	0	70
	BEC58P	507	28	505	30	0	0	1,070
	CIT3	242	13	241	14	0	0	510
	CL600	493	27	491	29	0	0	1,040
	CL601	498	28	496	29	0	0	1,052
	CNA172	3,409	189	3,396	202	0	0	7,196
	CNA182	240	13	239	14	0	0	507
	CNA206	144	8	144	9	0	0	305
	CNA208	1,088	60	1,084	64	0	0	2,297
	CNA441	237	13	236	14	0	0	500
	CNA500	109	6	109	6	0	0	230

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	CNA510	381	21	379	23	0	0	804
	CNA525C	1,335	74	1,330	79	0	0	2,817
	CNA55B	634	35	631	37	0	0	1,338
	CNA560U	497	28	495	29	0	0	1,049
	CNA560XL	611	34	609	36	0	0	1,290
	CNA680	365	20	363	22	0	0	769
	CNA750	573	32	571	34	0	0	1,209
	COMSEP	634	35	632	38	0	0	1,339
	DHC6	2,237	124	2,228	132	0	0	4,720
	ECLIPSE500	84	5	83	5	0	0	176
	EMB145	45	2	44	3	0	0	94
	FAL900EX	548	30	546	32	0	0	1,157
	G650ER	39	2	39	2	0	0	82
	GASEPF	723	40	721	43	0	0	1,527
	GASEPV	1,567	87	1,561	93	0	0	3,308
	GIIB	25	1	25	2	0	0	54
	GIV	442	24	441	26	0	0	934
	GV	258	14	257	15	0	0	546
	HS748A	33	2	33	2	0	0	69
	IA1125	197	11	196	12	0	0	416
	LEAR35	1,369	76	1,364	81	0	0	2,890
	MU3001	374	21	372	22	0	0	789
	PA28	469	26	467	28	0	0	990
	PA30	41	2	41	2	0	0	87
	SA350D	193	11	192	11	0	0	407
	T-38A	15	1	15	1	0	0	32
Subtotal		20,833	1,153	20,754	1,232	0	0	43,971
Itinerant Military	CNA208	1,022	88	1,074	36	0	0	2,220
	T-38A	253	22	266	9	0	0	549
	CNA510	182	16	192	6	0	0	396
	MU3001	165	14	173	6	0	0	359
	S70	151	13	158	5	0	0	328
	B429	140	12	147	5	0	0	305
	DHC6	110	9	116	4	0	0	239
	A7D	92	8	97	3	0	0	200
	F18EF	48	4	51	2	0	0	105
	KC135R	38	3	40	1	0	0	82

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
Subtotal		2,201	190	2,313	78	0	0	4,782
Local General Aviation and Military	CNA172	0	0	0	0	641	45	685
	GASEPV	0	0	0	0	150	10	161
	GASEPF	0	0	0	0	73	5	78
Subtotal		0	0	0	0	864	60	924
Total		100,491	22,085	104,753	17,823	864	60	246,076

Table 5. Modeled Average Daily Itinerant Aircraft Operations for 2027 No Action Conditions

Sources: AUS NOMS, HMMH

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
Air Carrier	717200	305	81	325	60	0	0	772
	737400	0	0	0	0	0	0	0
	737700	20,359	5,403	21,729	4,033	0	0	51,524
	737800	15,141	4,481	16,160	3,463	0	0	39,245
	747400	108	29	115	21	0	0	274
	777200	25	7	26	5	0	0	62
	7378MAX	236	63	252	47	0	0	598
	757PW	23	6	24	4	0	0	57
	757RR	311	83	332	62	0	0	787
	7673ER	0	232	0	232	0	0	463
	767CF6	0	232	0	232	0	0	463
	7773ER	458	122	489	91	0	0	1,160
	7878R	103	27	110	20	0	0	260
	A300-622R	627	166	669	124	0	0	1,586
	A319-131	7,852	2,084	8,380	1,556	0	0	19,872
	A320-211	4,510	1,197	4,813	893	0	0	11,412
	A320-232	6,907	1,833	7,371	1,368	0	0	17,479
	A320-271N	1,957	519	2,089	388	0	0	4,952
	A321-232	4,991	1,324	5,327	989	0	0	12,631
	A330-343	174	46	186	34	0	0	440
	A350-941	29	115	21	0	0	274	108
	CRJ9-ER	756	201	807	150	0	0	1,914
	DC1010	0	0	0	0	0	0	0
	DC1030	0	0	0	0	0	0	0
	EMB170	1,682	446	1,795	333	0	0	4,256

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	EMB175	2,643	701	2,821	524	0	0	6,690
	EMB190	1,069	284	1,141	212	0	0	2,705
	MD11GE	162	43	173	32	0	0	411
	MD11PW	86	23	92	17	0	0	217
	MD83	0	0	0	0	0	0	0
Subtotal		70,593	19,659	75,341	14,911	0	0	180,504
Air Taxi	BD-700-1A10	64	10	59	15	0	0	148
	BD-700-1A11	29	5	27	7	0	0	68
	CIT3	26	4	24	6	0	0	59
	CL600	730	115	674	170	0	0	1,690
	CL601	166	26	154	39	0	0	385
	CNA172	35	6	32	8	0	0	81
	CNA208	1,312	207	1,212	306	0	0	3,037
	CNA510	100	16	93	23	0	0	233
	CNA525C	81	13	75	19	0	0	187
	CNA55B	645	102	596	151	0	0	1,493
	CNA560U	106	17	98	25	0	0	245
	CNA560XL	598	94	553	140	0	0	1,386
	CNA680	547	86	506	128	0	0	1,267
	CNA750	710	112	656	166	0	0	1,644
	DHC6	325	51	301	76	0	0	753
	EMB145	58	9	54	14	0	0	135
	EMB14L	174	28	161	41	0	0	404
	FAL900EX	156	25	144	36	0	0	361
	G650ER	35	6	32	8	0	0	81
	GASEPV	38	6	35	9	0	0	88
	GIV	139	22	129	33	0	0	323
	GV	34	5	31	8	0	0	79
	IA1125	33	5	30	8	0	0	75
	LEAR35	607	96	561	142	0	0	1,406
	MU3001	116	18	107	27	0	0	269
Subtotal		6,864	1,084	6,345	1,603	0	0	15,895
Itinerant General Aviation	737700	23	1	23	1	0	0	49
	BD-700-1A10	120	7	120	7	0	0	254
	BD-700-1A11	33	2	33	2	0	0	70
	BEC58P	507	28	505	30	0	0	1,070
	CIT3	242	13	241	14	0	0	510

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	CL600	493	27	491	29	0	0	1,040
	CL601	498	28	496	29	0	0	1,052
	CNA172	3,409	189	3,396	202	0	0	7,196
	CNA182	240	13	239	14	0	0	507
	CNA206	144	8	144	9	0	0	305
	CNA208	1,088	60	1,084	64	0	0	2,297
	CNA441	237	13	236	14	0	0	500
	CNA500	109	6	109	6	0	0	230
	CNA510	381	21	379	23	0	0	804
	CNA525C	1,335	74	1,330	79	0	0	2,817
	CNA55B	634	35	631	37	0	0	1,338
	CNA560U	497	28	495	29	0	0	1,049
	CNA560XL	611	34	609	36	0	0	1,290
	CNA680	365	20	363	22	0	0	769
	CNA750	573	32	571	34	0	0	1,209
	COMSEP	634	35	632	38	0	0	1,339
	DHC6	2,237	124	2,228	132	0	0	4,720
	ECLIPSE500	84	5	83	5	0	0	176
	EMB145	45	2	44	3	0	0	94
	FAL900EX	548	30	546	32	0	0	1,157
	G650ER	39	2	39	2	0	0	82
	GASEPF	723	40	721	43	0	0	1,527
	GASEPV	1,567	87	1,561	93	0	0	3,308
	GIIB	25	1	25	2	0	0	54
	GIV	442	24	441	26	0	0	934
	GV	258	14	257	15	0	0	546
	HS748A	33	2	33	2	0	0	69
	IA1125	197	11	196	12	0	0	416
	LEAR35	1,369	76	1,364	81	0	0	2,890
	MU3001	374	21	372	22	0	0	789
	PA28	469	26	467	28	0	0	990
	PA30	41	2	41	2	0	0	87
	SA350D	193	11	192	11	0	0	407
	T-38A	15	1	15	1	0	0	32
Subtotal		20,833	1,153	20,754	1,232	0	0	43,971
Itinerant Military	CNA208	1,022	88	1,074	36	0	0	2,220
	T-38A	253	22	266	9	0	0	549

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	CNA510	182	16	192	6	0	0	396
	MU3001	165	14	173	6	0	0	359
	S70	151	13	158	5	0	0	328
	B429	140	12	147	5	0	0	305
	DHC6	110	9	116	4	0	0	239
	A7D	92	8	97	3	0	0	200
	F18EF	48	4	51	2	0	0	105
	KC135R	38	3	40	1	0	0	82
Subtotal		2,201	190	2,313	78	0	0	4,782
Local General Aviation and Military	CNA172	0	0	0	0	641	45	685
	GASEPV	0	0	0	0	150	10	161
	GASEPF	0	0	0	0	73	5	78
Subtotal		0	0	0	0	864	60	924
Total		100,491	22,085	104,753	17,823	864	60	246,076

Table 6. Modeled Average Daily Itinerant Aircraft Operations for 2032 Action Conditions
Sources: AUS NOMS, HMMH

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
Air Carrier	717200	0	0	0	0	0	0	0
	737400	0	0	0	0	0	0	0
	737700	24,017	6,373	25,632	4,758	0	0	60,780
	737800	17,598	4,670	18,781	3,486	0	0	44,535
	747400	0	0	0	0	0	0	0
	777200	29	8	30	6	0	0	72
	7378MAX	275	73	293	54	0	0	695
	757PW	26	7	28	5	0	0	66
	757RR	361	96	386	72	0	0	915
	7673ER	0	1,077	0	1,077	0	0	2,154
	7773ER	677	180	723	134	0	0	1,713
	7878R	119	32	128	24	0	0	302
	A300-622R	729	193	778	144	0	0	1,844
	A319-131	9,126	2,422	9,740	1,808	0	0	23,096
	A320-211	4,368	1,159	4,661	865	0	0	11,053
	A320-232	8,027	2,130	8,567	1,590	0	0	20,315
	A320-271N	3,148	835	3,360	624	0	0	7,967
	A321-232	5,801	1,539	6,191	1,149	0	0	14,680

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	A330-343	202	54	216	40	0	0	512
	A350-941	251	67	268	50	0	0	636
	CRJ9-ER	879	233	938	174	0	0	2,224
	DC1010	0	0	0	0	0	0	0
	DC1030	0	0	0	0	0	0	0
	EMB170	1,954	519	2,086	387	0	0	4,946
	EMB175	3,072	815	3,279	609	0	0	7,775
	EMB190	1,242	330	1,326	246	0	0	3,143
	MD11GE	94	25	101	19	0	0	239
	MD11PW	50	13	53	10	0	0	126
	MD83	0	0	0	0	0	0	0
Subtotal		82,045	22,849	87,564	17,330	0	0	209,788
Air Taxi	BD-700-1A10	67	11	62	16	0	0	156
	BD-700-1A11	31	5	29	7	0	0	72
	CIT3	27	4	25	6	0	0	63
	CL600	771	122	713	180	0	0	1,786
	CL601	176	28	163	41	0	0	407
	CNA172	37	6	34	9	0	0	85
	CNA208	1,386	219	1,281	324	0	0	3,210
	CNA510	106	17	98	25	0	0	246
	CNA525C	85	13	79	20	0	0	198
	CNA55B	682	108	630	159	0	0	1,578
	CNA560U	112	18	104	26	0	0	259
	CNA560XL	633	100	585	148	0	0	1,465
	CNA680	578	91	535	135	0	0	1,339
	CNA750	750	118	694	175	0	0	1,738
	DHC6	344	54	318	80	0	0	796
	EMB145	62	10	57	14	0	0	143
	EMB14L	184	29	170	43	0	0	427
	FAL900EX	165	26	152	38	0	0	382
	G650ER	37	6	34	9	0	0	85
	GASEPV	40	6	37	9	0	0	93
	GIV	147	23	136	34	0	0	341
	GV	36	6	33	8	0	0	83
	IA1125	34	5	32	8	0	0	80
	LEAR35	642	101	593	150	0	0	1,486
	MU3001	123	19	113	29	0	0	284

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
Subtotal		7,255	1,145	6,707	1,694	0	0	16,801
Itinerant General Aviation	737700	24	1	23	1	0	0	50
	BD-700-1A10	122	7	122	7	0	0	258
	BD-700-1A11	34	2	34	2	0	0	72
	BEC58P	516	29	514	30	0	0	1,089
	CIT3	246	14	245	15	0	0	519
	CL600	501	28	500	30	0	0	1,058
	CL601	507	28	505	30	0	0	1,071
	CNA172	3,470	192	3,457	205	0	0	7,324
	CNA182	245	14	244	14	0	0	516
	CNA206	147	8	146	9	0	0	310
	CNA208	1,107	61	1,103	65	0	0	2,337
	CNA441	241	13	240	14	0	0	509
	CNA500	111	6	110	7	0	0	234
	CNA510	388	21	386	23	0	0	818
	CNA525C	1,358	75	1,353	80	0	0	2,867
	CNA55B	645	36	643	38	0	0	1,362
	CNA560U	506	28	504	30	0	0	1,068
	CNA560XL	622	34	620	37	0	0	1,313
	CNA680	371	21	370	22	0	0	783
	CNA750	583	32	581	34	0	0	1,231
	COMSEP	646	36	643	38	0	0	1,363
	DHC6	2,276	126	2,268	135	0	0	4,805
	ECLIPSE500	85	5	85	5	0	0	179
	EMB145	45	3	45	3	0	0	96
	FAL900EX	558	31	556	33	0	0	1,177
	G650ER	40	2	39	2	0	0	84
	GASEPF	736	41	734	44	0	0	1,554
	GASEPV	1,595	88	1,589	94	0	0	3,367
	GIIB	26	1	26	2	0	0	55
	GIV	450	25	449	27	0	0	951
	GV	263	15	262	16	0	0	555
	HS748A	33	2	33	2	0	0	70
	IA1125	200	11	200	12	0	0	423
	LEAR35	1,394	77	1,388	82	0	0	2,941
	MU3001	380	21	379	22	0	0	803
	PA28	477	26	476	28	0	0	1,007

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	PA30	42	2	42	2	0	0	89
	SA350D	196	11	196	12	0	0	415
	T-38A	16	1	15	1	0	0	33
Subtotal		21,204	1,173	21,124	1,254	0	0	44,755
Itinerant Military	CNA208	1,022	88	1,074	36	0	0	2,220
	T-38A	253	22	266	9	0	0	549
	CNA510	182	16	192	6	0	0	396
	MU3001	165	14	173	6	0	0	359
	S70	151	13	158	5	0	0	328
	B429	140	12	147	5	0	0	305
	DHC6	110	9	116	4	0	0	239
	A7D	92	8	97	3	0	0	200
	F18EF	48	4	51	2	0	0	105
	KC135R	38	3	40	1	0	0	82
Subtotal		2,201	190	2,313	78	0	0	4,782
Local General Aviation and Military	CNA172	0	0	0	0	645	45	690
	GASEPV	0	0	0	0	151	11	162
	GASEPF	0	0	0	0	73	5	78
Subtotal		0	0	0	0	870	60	930
Total		112,706	25,357	117,707	20,356	870	60	277,056

Table 7. Modeled Average Daily Itinerant Aircraft Operations for 2032 No Action Conditions

Sources: AUS NOMS, HMMH

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
Air Carrier	717200	0	0	0	0	0	0	0
	737400	0	0	0	0	0	0	0
	737700	21,510	5,708	22,956	4,261	0	0	54,435
	737800	15,761	4,182	16,821	3,122	0	0	39,886
	747400	0	0	0	0	0	0	0
	777200	26	7	27	5	0	0	65
	7378MAX	246	65	262	49	0	0	622
	757PW	23	6	25	5	0	0	59
	757RR	324	86	345	64	0	0	819
	7673ER	0	964	0	964	0	0	1,929
	7773ER	606	161	647	120	0	0	1,534
	7878R	107	28	114	21	0	0	271

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	A300-622R	653	173	696	129	0	0	1,651
	A319-131	8,173	2,169	8,723	1,619	0	0	20,685
	A320-211	3,912	1,038	4,175	775	0	0	9,899
	A320-232	7,189	1,908	7,673	1,424	0	0	18,194
	A320-271N	2,819	748	3,009	559	0	0	7,135
	A321-232	5,195	1,379	5,545	1,029	0	0	13,148
	A330-343	181	48	193	36	0	0	458
	A350-941	225	60	240	0	0	0	525
	CRJ9-ER	787	209	840	156	0	0	1,992
	DC1010	0	0	0	0	0	0	0
	DC1030	0	0	0	0	0	0	0
	EMB170	1,750	464	1,868	347	0	0	4,430
	EMB175	2,752	730	2,937	545	0	0	6,964
	EMB190	1,112	295	1,187	220	0	0	2,815
	MD11GE	85	22	90	17	0	0	214
	MD11PW	45	12	48	9	0	0	113
	MD83	0	0	0	0	0	0	0
Subtotal		73,481	20,463	78,423	15,477	0	0	187,843
Air Taxi	BD-700-1A10	67	11	62	16	0	0	156
	BD-700-1A11	31	5	29	7	0	0	72
	CIT3	27	4	25	6	0	0	63
	CL600	771	122	713	180	0	0	1,786
	CL601	176	28	163	41	0	0	407
	CNA172	37	6	34	9	0	0	85
	CNA208	1,386	219	1,281	324	0	0	3,210
	CNA510	106	17	98	25	0	0	246
	CNA525C	85	13	79	20	0	0	198
	CNA55B	682	108	630	159	0	0	1,578
	CNA560U	112	18	104	26	0	0	259
	CNA560XL	633	100	585	148	0	0	1,465
	CNA680	578	91	535	135	0	0	1,339
	CNA750	750	118	694	175	0	0	1,738
	DHC6	344	54	318	80	0	0	796
	EMB145	62	10	57	14	0	0	143
	EMB14L	184	29	170	43	0	0	427
	FAL900EX	165	26	152	38	0	0	382
	G650ER	37	6	34	9	0	0	85

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	GASEPV	40	6	37	9	0	0	93
	GIV	147	23	136	34	0	0	341
	GV	36	6	33	8	0	0	83
	IA1125	34	5	32	8	0	0	80
	LEAR35	642	101	593	150	0	0	1,486
	MU3001	123	19	113	29	0	0	284
Subtotal		7,255	1,145	6,707	1,694	0	0	16,801
Itinerant General Aviation	737700	24	1	23	1	0	0	50
	BD-700-1A10	122	7	122	7	0	0	258
	BD-700-1A11	34	2	34	2	0	0	72
	BEC58P	516	29	514	30	0	0	1,089
	CIT3	246	14	245	15	0	0	519
	CL600	501	28	500	30	0	0	1,058
	CL601	507	28	505	30	0	0	1,071
	CNA172	3,470	192	3,457	205	0	0	7,324
	CNA182	245	14	244	14	0	0	516
	CNA206	147	8	146	9	0	0	310
	CNA208	1,107	61	1,103	65	0	0	2,337
	CNA441	241	13	240	14	0	0	509
	CNA500	111	6	110	7	0	0	234
	CNA510	388	21	386	23	0	0	818
	CNA525C	1,358	75	1,353	80	0	0	2,867
	CNA55B	645	36	643	38	0	0	1,362
	CNA560U	506	28	504	30	0	0	1,068
	CNA560XL	622	34	620	37	0	0	1,313
	CNA680	371	21	370	22	0	0	783
	CNA750	583	32	581	34	0	0	1,231
	COMSEP	646	36	643	38	0	0	1,363
	DHC6	2,276	126	2,268	135	0	0	4,805
	ECLIPSE500	85	5	85	5	0	0	179
	EMB145	45	3	45	3	0	0	96
	FAL900EX	558	31	556	33	0	0	1,177
	G650ER	40	2	39	2	0	0	84
	GASEPF	736	41	734	44	0	0	1,554
	GASEPV	1,595	88	1,589	94	0	0	3,367
	GIIB	26	1	26	2	0	0	55
	GIV	450	25	449	27	0	0	951

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	GV	263	15	262	16	0	0	555
	HS748A	33	2	33	2	0	0	70
	IA1125	200	11	200	12	0	0	423
	LEAR35	1,394	77	1,388	82	0	0	2,941
	MU3001	380	21	379	22	0	0	803
	PA28	477	26	476	28	0	0	1,007
	PA30	42	2	42	2	0	0	89
	SA350D	196	11	196	12	0	0	415
	T-38A	16	1	15	1	0	0	33
Subtotal		21,204	1,173	21,124	1,254	0	0	44,755
Itinerant Military	CNA208	1,022	88	1,074	36	0	0	2,220
	T-38A	253	22	266	9	0	0	549
	CNA510	182	16	192	6	0	0	396
	MU3001	165	14	173	6	0	0	359
	S70	151	13	158	5	0	0	328
	B429	140	12	147	5	0	0	305
	DHC6	110	9	116	4	0	0	239
	A7D	92	8	97	3	0	0	200
	F18EF	48	4	51	2	0	0	105
	KC135R	38	3	40	1	0	0	82
Subtotal		2,201	190	2,313	78	0	0	4,782
Local General Aviation and Military	CNA172	0	0	0	0	645	45	690
	GASEPV	0	0	0	0	151	11	162
	GASEPF	0	0	0	0	73	5	78
Subtotal		0	0	0	0	870	60	930
Total		104,141	22,972	108,566	18,502	870	60	255,111

Table 8. Modeled Average Daily Itinerant Aircraft Operations for 2037 Action Conditions

Sources: AUS NOMS, HMMH

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
Air Carrier	717200	0	0	0	0	0	0	0
	737400	0	0	0	0	0	0	0
	737700	27,602	7,325	29,459	5,468	0	0	69,853
	737800	20,225	5,367	21,585	4,007	0	0	51,183
	747400	0	0	0	0	0	0	0
	777200	33	9	35	7	0	0	83

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	7378MAX	316	84	337	63	0	0	798
	757PW	30	8	32	6	0	0	76
	757RR	415	110	443	82	0	0	1,051
	7673ER	0	1,238	0	1,238	0	0	2,475
	7773ER	778	206	830	154	0	0	1,969
	7878R	137	36	147	27	0	0	348
	A300-622R	837	222	894	166	0	0	2,119
	A319-131	10,488	2,783	11,194	2,078	0	0	26,543
	A320-211	5,020	1,332	5,357	994	0	0	12,703
	A320-232	9,226	2,448	9,846	1,828	0	0	23,348
	A320-271N	3,618	960	3,861	717	0	0	9,156
	A321-232	6,667	1,769	7,115	1,321	0	0	16,872
	A330-343	232	62	248	46	0	0	588
	A350-941	289	77	308	57	0	0	731
	CRJ9-ER	1,010	268	1,078	200	0	0	2,557
	DC1010	0	0	0	0	0	0	0
	DC1030	0	0	0	0	0	0	0
	EMB170	2,246	596	2,397	445	0	0	5,684
	EMB175	3,531	937	3,768	700	0	0	8,936
	EMB190	1,428	379	1,524	283	0	0	3,613
	MD11GE	109	29	116	21	0	0	275
	MD11PW	57	15	61	11	0	0	145
	MD83	0	0	0	0	0	0	0
Subtotal		**94,293**	**26,260**	**100,636**	**19,917**	**0**	**0**	**241,106**
Air Taxi	BD-700-1A10	71	11	66	17	0	0	165
	BD-700-1A11	33	5	30	8	0	0	76
	CIT3	29	5	27	7	0	0	66
	CL600	815	129	754	190	0	0	1,888
	CL601	186	29	172	43	0	0	431
	CNA172	39	6	36	9	0	0	90
	CNA208	1,466	231	1,355	342	0	0	3,394
	CNA510	112	18	104	26	0	0	260
	CNA525C	90	14	83	21	0	0	209
	CNA55B	720	114	666	168	0	0	1,668
	CNA560U	118	19	109	28	0	0	274
	CNA560XL	669	106	618	156	0	0	1,549
	CNA680	611	96	565	143	0	0	1,416

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	CNA750	793	125	733	185	0	0	1,837
	DHC6	363	57	336	85	0	0	841
	EMB145	65	10	60	15	0	0	151
	EMB14L	195	31	180	45	0	0	451
	FAL900EX	174	28	161	41	0	0	403
	G650ER	39	6	36	9	0	0	90
	GASEPV	43	7	39	10	0	0	98
	GIV	156	25	144	36	0	0	361
	GV	38	6	35	9	0	0	88
	IA1125	36	6	34	8	0	0	84
	LEAR35	678	107	627	158	0	0	1,571
	MU3001	130	20	120	30	0	0	300
Subtotal		**7,670**	**1,211**	**7,090**	**1,791**	**0**	**0**	**17,761**
Itinerant General Aviation	737700	24	1	24	1	0	0	51
	BD-700-1A10	125	7	124	7	0	0	263
	BD-700-1A11	34	2	34	2	0	0	73
	BEC58P	525	29	523	31	0	0	1,108
	CIT3	250	14	249	15	0	0	528
	CL600	510	28	508	30	0	0	1,077
	CL601	516	29	514	31	0	0	1,090
	CNA172	3,532	195	3,518	209	0	0	7,455
	CNA182	249	14	248	15	0	0	526
	CNA206	150	8	149	9	0	0	316
	CNA208	1,127	62	1,123	67	0	0	2,379
	CNA441	246	14	245	15	0	0	518
	CNA500	113	6	112	7	0	0	238
	CNA510	395	22	393	23	0	0	833
	CNA525C	1,383	77	1,377	82	0	0	2,918
	CNA55B	657	36	654	39	0	0	1,386
	CNA560U	515	28	513	30	0	0	1,087
	CNA560XL	633	35	631	37	0	0	1,336
	CNA680	378	21	376	22	0	0	797
	CNA750	593	33	591	35	0	0	1,253
	COMSEP	657	36	655	39	0	0	1,387
	DHC6	2,317	128	2,308	137	0	0	4,890
	ECLIPSE500	87	5	86	5	0	0	183
	EMB145	46	3	46	3	0	0	97

Category	AEDT Type	Arrivals		Departures		Circuits		Total
		Day	Night	Day	Night	Day	Night	
	FAL900EX	568	31	566	34	0	0	1,198
	G650ER	40	2	40	2	0	0	85
	GASEPF	750	41	747	44	0	0	1,582
	GASEPV	1,624	90	1,617	96	0	0	3,427
	GIIB	26	1	26	2	0	0	56
	GIV	458	25	457	27	0	0	967
	GV	268	15	267	16	0	0	565
	HS748A	34	2	34	2	0	0	72
	IA1125	204	11	203	12	0	0	431
	LEAR35	1,418	78	1,413	84	0	0	2,994
	MU3001	387	21	386	23	0	0	817
	PA28	486	27	484	29	0	0	1,025
	PA30	43	2	43	3	0	0	90
	SA350D	200	11	199	12	0	0	422
	T-38A	16	1	16	1	0	0	33
Subtotal		**21,582**	**1,194**	**21,501**	**1,276**	**0**	**0**	**45,553**
Itinerant Military	CNA208	1,022	88	1,074	36	0	0	2,220
	T-38A	253	22	266	9	0	0	549
	CNA510	182	16	192	6	0	0	396
	MU3001	165	14	173	6	0	0	359
	S70	151	13	158	5	0	0	328
	B429	140	12	147	5	0	0	305
	DHC6	110	9	116	4	0	0	239
	A7D	92	8	97	3	0	0	200
	F18EF	48	4	51	2	0	0	105
	KC135R	38	3	40	1	0	0	82
Subtotal		**2,201**	**190**	**2,313**	**78**	**0**	**0**	**4,782**
Local General Aviation and Military	CNA172	0	0	0	0	650	45	695
	GASEPV	0	0	0	0	153	11	163
	GASEPF	0	0	0	0	74	5	79
Subtotal		0	0	0	0	876	61	937
Total		**125,747**	**28,854**	**131,539**	**23,062**	**876**	**61**	**310,139**

3.3 Aircraft Noise and Performance Characteristics

AEDT requires the use of specific noise and performance data for each aircraft type operating at the Airport. Noise data are specified in the form of Sound Exposure Level (SEL) at a range of distances (from 200 feet to 25,000 feet) from a receiver on the ground to a particular aircraft with engines operating at a range of thrust levels. Performance data include thrust, speed and altitude profiles for takeoff and landing operations. The AEDT automatically accesses the noise and performance data for takeoff and landing operations by those aircraft types.

Within the AEDT database, aircraft departure profiles are defined by a range of trip distances identified as "stage lengths." Higher stage lengths (longer trip distances) are associated with heavier aircraft due to the increase in fuel requirements for the flight. For example, a departure aircraft with a trip distance less than 500 Nautical Miles (nmi) would be assigned a stagelength value of one, where a departure aircraft with a trip distance of 3,000 nmi would be assigned a stagelength value of five. The noise calculations presented in this document used the standard AEDT departure profiles. **Table 9** provides the stagelength classifications by their associated trip distances. **Table 10, Table 11 Table 12,Table 13**, and **Table 14** show the 2027, 2032, and 2037 Modeled Departure Stagelength Usage by Aircraft Type. Forecast year 2037 only consists of an action case for informational purposes.

Table 9. Stagelengths by Trip Distance

Stagelength	Trip Distance (nmi)
1	0-500
2	501-1,000
3	1,001-1,500
4	1,501-2,500
5	2,501-3,500
6	3,501-4,500
7	4,501-5,500
8	5,501-6,500
9	6,501+

Table 10. 2027 Action Conditions Modeled Departure Stagelength Usage by Aircraft Type

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
1900D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
717200	1%	99%	0%	0%	0%	0%	0%	0%	0%	100%
737700	37%	45%	18%	0%	0%	0%	0%	0%	0%	100%
737800	27%	38%	33%	2%	0%	0%	0%	0%	0%	100%
7378MAX	39%	34%	27%	0%	0%	0%	0%	0%	0%	100%
747400	0%	4%	0%	0%	0%	96%	0%	0%	0%	100%
757PW	74%	22%	4%	0%	0%	0%	0%	0%	0%	100%
757RR	80%	20%	0%	0%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
767300	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
7673ER	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
767CF6	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
777200	54%	0%	0%	0%	0%	46%	0%	0%	0%	100%
7773ER	2%	0%	0%	0%	0%	98%	0%	0%	0%	100%
7878R	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%
A300-622R	56%	44%	0%	0%	0%	0%	0%	0%	0%	100%
A319-131	7%	65%	27%	1%	0%	0%	0%	0%	0%	100%
A320-211	2%	31%	53%	14%	0%	0%	0%	0%	0%	100%
A320-232	10%	50%	40%	0%	0%	0%	0%	0%	0%	100%
A320-271N	5%	58%	34%	3%	0%	0%	0%	0%	0%	100%
A321-232	35%	56%	8%	0%	0%	0%	0%	0%	0%	100%
A330-343	1%	1%	0%	0%	0%	0%	98%	0%	0%	100%
A350-941	0%	4%	0%	0%	0%	96%	0%	0%	0%	100%
BD-700-1A10	30%	26%	35%	3%	0%	4%	2%	0%	0%	100%
BD-700-1A11	33%	26%	36%	3%	0%	2%	0%	0%	0%	100%
BEC58P	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CIT3	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL600	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL601	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA172	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA182	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA206	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA208	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA441	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA500	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA510	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA525C	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA55B	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560U	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560XL	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA680	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA750	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
COMSEP	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CRJ9-ER	4%	60%	36%	0%	0%	0%	0%	0%	0%	100%
DHC6	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
DHC830	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
ECLIPSE500	66%	34%	0%	0%	0%	0%	0%	0%	0%	100%
EMB145	61%	24%	14%	0%	0%	0%	0%	0%	0%	100%
EMB14L	82%	17%	1%	0%	0%	0%	0%	0%	0%	100%
EMB170	23%	30%	46%	0%	0%	0%	0%	0%	0%	100%
EMB175	12%	12%	76%	0%	0%	0%	0%	0%	0%	100%
EMB190	1%	32%	68%	0%	0%	0%	0%	0%	0%	100%
FAL900EX	57%	20%	19%	4%	0%	0%	0%	0%	0%	100%
G650ER	31%	15%	43%	3%	3%	4%	0%	0%	0%	100%
GASEPF	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GASEPV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIIB	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
HS748A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
IA1125	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
LEAR35	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MD11GE	99%	1%	1%	0%	0%	0%	0%	0%	0%	100%
MD11PW	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MU3001	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA28	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA30	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
SA350D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
T-38A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%

Table 11. 2027 No Action Conditions Modeled Departure Stagelength Usage by Aircraft Type

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
1900D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
717200	1%	99%	0%	0%	0%	0%	0%	0%	0%	100%
737700	37%	45%	18%	0%	0%	0%	0%	0%	0%	100%
737800	27%	38%	33%	2%	0%	0%	0%	0%	0%	100%
7378MAX	39%	34%	27%	0%	0%	0%	0%	0%	0%	100%
747400	0%	4%	0%	0%	0%	96%	0%	0%	0%	100%
757PW	74%	22%	4%	0%	0%	0%	0%	0%	0%	100%
757RR	80%	20%	0%	0%	0%	0%	0%	0%	0%	100%
767300	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
7673ER	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
767CF6	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
777200	54%	0%	0%	0%	0%	46%	0%	0%	0%	100%
7773ER	2%	0%	0%	0%	0%	98%	0%	0%	0%	100%
7878R	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%
A300-622R	56%	44%	0%	0%	0%	0%	0%	0%	0%	100%
A319-131	7%	65%	27%	1%	0%	0%	0%	0%	0%	100%
A320-211	2%	31%	53%	14%	0%	0%	0%	0%	0%	100%
A320-232	10%	50%	40%	0%	0%	0%	0%	0%	0%	100%
A320-271N	5%	58%	34%	3%	0%	0%	0%	0%	0%	100%
A321-232	35%	56%	8%	0%	0%	0%	0%	0%	0%	100%
A330-343	1%	1%	0%	0%	0%	0%	98%	0%	0%	100%
A350-941	0%	4%	0%	0%	0%	96%	0%	0%	0%	100%
BD-700-1A10	30%	26%	35%	3%	0%	4%	2%	0%	0%	100%
BD-700-1A11	33%	26%	36%	3%	0%	2%	0%	0%	0%	100%
BEC58P	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CIT3	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL600	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL601	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA172	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA182	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA206	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA208	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA441	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA500	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA510	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA525C	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA55B	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560U	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560XL	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA680	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA750	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
COMSEP	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CRJ9-ER	4%	60%	36%	0%	0%	0%	0%	0%	0%	100%
DHC6	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
DHC830	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
ECLIPSE500	66%	34%	0%	0%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
EMB145	61%	24%	14%	0%	0%	0%	0%	0%	0%	100%
EMB14L	82%	17%	1%	0%	0%	0%	0%	0%	0%	100%
EMB170	23%	30%	46%	0%	0%	0%	0%	0%	0%	100%
EMB175	12%	12%	76%	0%	0%	0%	0%	0%	0%	100%
EMB190	1%	32%	68%	0%	0%	0%	0%	0%	0%	100%
FAL900EX	57%	20%	19%	4%	0%	0%	0%	0%	0%	100%
G650ER	31%	15%	43%	3%	3%	4%	0%	0%	0%	100%
GASEPF	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GASEPV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIIB	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
HS748A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
IA1125	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
LEAR35	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MD11GE	99%	1%	1%	0%	0%	0%	0%	0%	0%	100%
MD11PW	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MU3001	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA28	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA30	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
SA350D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
T-38A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%

Table 12. 2032 Action Conditions Modeled Departure Stagelength Usage by Aircraft Type

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
1900D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
717200	1%	99%	0%	0%	0%	0%	0%	0%	0%	100%
737700	37%	45%	18%	0%	0%	0%	0%	0%	0%	100%
737800	27%	38%	33%	2%	0%	0%	0%	0%	0%	100%
7378MAX	39%	34%	27%	0%	0%	0%	0%	0%	0%	100%
757PW	74%	22%	4%	0%	0%	0%	0%	0%	0%	100%
757RR	80%	20%	0%	0%	0%	0%	0%	0%	0%	100%
767300	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
7673ER	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
777200	54%	0%	0%	0%	0%	46%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
7773ER	2%	0%	0%	0%	0%	98%	0%	0%	0%	100%
7878R	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%
A300-622R	56%	44%	0%	0%	0%	0%	0%	0%	0%	100%
A319-131	7%	65%	27%	1%	0%	0%	0%	0%	0%	100%
A320-211	2%	31%	53%	14%	0%	0%	0%	0%	0%	100%
A320-232	10%	50%	40%	0%	0%	0%	0%	0%	0%	100%
A320-271N	5%	58%	34%	3%	0%	0%	0%	0%	0%	100%
A321-232	35%	56%	8%	0%	0%	0%	0%	0%	0%	100%
A330-343	1%	1%	0%	0%	0%	0%	98%	0%	0%	100%
A350-941	0%	4%	0%	0%	0%	96%	0%	0%	0%	100%
BD-700-1A10	30%	26%	35%	3%	0%	4%	2%	0%	0%	100%
BD-700-1A11	33%	26%	36%	3%	0%	2%	0%	0%	0%	100%
BEC58P	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CIT3	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL600	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL601	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA172	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA182	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA206	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA208	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA441	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA500	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA510	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA525C	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA55B	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560U	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560XL	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA680	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA750	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
COMSEP	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CRJ9-ER	4%	60%	36%	0%	0%	0%	0%	0%	0%	100%
DHC6	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
DHC830	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
ECLIPSE500	66%	34%	0%	0%	0%	0%	0%	0%	0%	100%
EMB145	61%	24%	14%	0%	0%	0%	0%	0%	0%	100%
EMB14L	82%	17%	1%	0%	0%	0%	0%	0%	0%	100%
EMB170	23%	30%	46%	0%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
EMB175	12%	12%	76%	0%	0%	0%	0%	0%	0%	100%
EMB190	1%	32%	68%	0%	0%	0%	0%	0%	0%	100%
FAL900EX	57%	20%	19%	4%	0%	0%	0%	0%	0%	100%
G650ER	31%	15%	43%	3%	3%	4%	0%	0%	0%	100%
GASEPF	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GASEPV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIIB	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
HS748A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
IA1125	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
LEAR35	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MD11GE	99%	1%	1%	0%	0%	0%	0%	0%	0%	100%
MD11PW	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MU3001	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA28	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA30	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
SA350D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
T-38A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%

Table 13. 2032 No Action Conditions Modeled Departure Stagelength Usage by Aircraft Type

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
1900D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
717200	1%	99%	0%	0%	0%	0%	0%	0%	0%	100%
737700	37%	45%	18%	0%	0%	0%	0%	0%	0%	100%
737800	27%	38%	33%	2%	0%	0%	0%	0%	0%	100%
7378MAX	39%	34%	27%	0%	0%	0%	0%	0%	0%	100%
757PW	74%	22%	4%	0%	0%	0%	0%	0%	0%	100%
757RR	80%	20%	0%	0%	0%	0%	0%	0%	0%	100%
767300	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
7673ER	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
777200	54%	0%	0%	0%	0%	46%	0%	0%	0%	100%
7773ER	2%	0%	0%	0%	0%	98%	0%	0%	0%	100%
7878R	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%
A300-622R	56%	44%	0%	0%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
A319-131	7%	65%	27%	1%	0%	0%	0%	0%	0%	100%
A320-211	2%	31%	53%	14%	0%	0%	0%	0%	0%	100%
A320-232	10%	50%	40%	0%	0%	0%	0%	0%	0%	100%
A320-271N	5%	58%	34%	3%	0%	0%	0%	0%	0%	100%
A321-232	35%	56%	8%	0%	0%	0%	0%	0%	0%	100%
A330-343	1%	1%	0%	0%	0%	0%	98%	0%	0%	100%
A350-941	0%	4%	0%	0%	0%	96%	0%	0%	0%	100%
BD-700-1A10	30%	26%	35%	3%	0%	4%	2%	0%	0%	100%
BD-700-1A11	33%	26%	36%	3%	0%	2%	0%	0%	0%	100%
BEC58P	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CIT3	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL600	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL601	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA172	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA182	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA206	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA208	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA441	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA500	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA510	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA525C	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA55B	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560U	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560XL	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA680	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA750	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
COMSEP	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CRJ9-ER	4%	60%	36%	0%	0%	0%	0%	0%	0%	100%
DHC6	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
DHC830	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
ECLIPSE500	66%	34%	0%	0%	0%	0%	0%	0%	0%	100%
EMB145	61%	24%	14%	0%	0%	0%	0%	0%	0%	100%
EMB14L	82%	17%	1%	0%	0%	0%	0%	0%	0%	100%
EMB170	23%	30%	46%	0%	0%	0%	0%	0%	0%	100%
EMB175	12%	12%	76%	0%	0%	0%	0%	0%	0%	100%
EMB190	1%	32%	68%	0%	0%	0%	0%	0%	0%	100%
FAL900EX	57%	20%	19%	4%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
G650ER	31%	15%	43%	3%	3%	4%	0%	0%	0%	100%
GASEPF	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GASEPV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIIB	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
HS748A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
IA1125	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
LEAR35	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MD11GE	99%	1%	1%	0%	0%	0%	0%	0%	0%	100%
MD11PW	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MU3001	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA28	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA30	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
SA350D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
T-38A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%

Table 14. 2037 Action Conditions Modeled Departure Stagelength Usage by Aircraft Type

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
1900D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
717200	1%	99%	0%	0%	0%	0%	0%	0%	0%	100%
737700	37%	45%	18%	0%	0%	0%	0%	0%	0%	100%
737800	27%	38%	33%	2%	0%	0%	0%	0%	0%	100%
7378MAX	39%	34%	27%	0%	0%	0%	0%	0%	0%	100%
757PW	74%	22%	4%	0%	0%	0%	0%	0%	0%	100%
757RR	80%	20%	0%	0%	0%	0%	0%	0%	0%	100%
767300	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
7673ER	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
777200	54%	0%	0%	0%	0%	46%	0%	0%	0%	100%
7773ER	2%	0%	0%	0%	0%	98%	0%	0%	0%	100%
7878R	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%
A300-622R	56%	44%	0%	0%	0%	0%	0%	0%	0%	100%
A319-131	7%	65%	27%	1%	0%	0%	0%	0%	0%	100%
A320-211	2%	31%	53%	14%	0%	0%	0%	0%	0%	100%
A320-232	10%	50%	40%	0%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
A320-271N	5%	58%	34%	3%	0%	0%	0%	0%	0%	100%
A321-232	35%	56%	8%	0%	0%	0%	0%	0%	0%	100%
A330-343	1%	1%	0%	0%	0%	0%	98%	0%	0%	100%
A350-941	0%	4%	0%	0%	0%	96%	0%	0%	0%	100%
BD-700-1A10	30%	26%	35%	3%	0%	4%	2%	0%	0%	100%
BD-700-1A11	33%	26%	36%	3%	0%	2%	0%	0%	0%	100%
BEC58P	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CIT3	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL600	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CL601	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA172	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA182	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA206	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA208	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA441	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA500	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA510	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA525C	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA55B	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560U	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA560XL	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA680	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CNA750	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
COMSEP	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
CRJ9-ER	4%	60%	36%	0%	0%	0%	0%	0%	0%	100%
DHC6	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
DHC830	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
ECLIPSE500	66%	34%	0%	0%	0%	0%	0%	0%	0%	100%
EMB145	61%	24%	14%	0%	0%	0%	0%	0%	0%	100%
EMB14L	82%	17%	1%	0%	0%	0%	0%	0%	0%	100%
EMB170	23%	30%	46%	0%	0%	0%	0%	0%	0%	100%
EMB175	12%	12%	76%	0%	0%	0%	0%	0%	0%	100%
EMB190	1%	32%	68%	0%	0%	0%	0%	0%	0%	100%
FAL900EX	57%	20%	19%	4%	0%	0%	0%	0%	0%	100%
G650ER	31%	15%	43%	3%	3%	4%	0%	0%	0%	100%
GASEPF	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GASEPV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%

AEDT Type	Stagelength									Total
	1	2	3	4	5	6	7	8	9	
GIIB	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GIV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
GV	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
HS748A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
IA1125	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
LEAR35	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MD11GE	99%	1%	1%	0%	0%	0%	0%	0%	0%	100%
MD11PW	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
MU3001	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA28	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
PA30	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
SA350D	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%
T-38A	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%

3.4 Runway Utilization

The primary factor affecting runway use at airports is weather; specifically, the wind direction and wind speed. An additional factor that may affect runway use includes the position of the facility or ramp relative to the runway.

HMMH utilized 2019 data obtained from the AUS NOMS to compile runway use tables and categorized this information by arrival, departure, or circuits, as well as day and night. In 2019, the two runways were designated as: Runway 17L/35R and Runway 17R/35L, due to a shift in magnetic heading in 2020 the Runways were renamed to the current Runway 18L/36R and Runway 18R/36L. The current magnetic headings of the Runways are used for the 2027, 2032, and 2037 modeling scenarios. HMMH separated the data into jet and non-jet categories since these categories of aircraft types may use the runways differently due to the performance characteristics of the aircraft. Runway utilization remains the same from baseline for all modeling scenarios as shown in **Table 15.**

Table 15. 2027, 2032, and 2037 Runway Utilization

Source: AUS NOMS, HMMH

Aircraft Category	Runway	Arrival		Departure	
		Day	Night	Day	Night
Jet	36R	19%	15%	19%	13%
	36L	16%	18%	16%	18%
	18R	35%	44%	27%	32%
	18L	30%	24%	39%	37%
	Total	100%	100%	100%	100%
Non-Jet	36R	33%	15%	34%	11%
	36L	4%	10%	2%	20%
	18R	7%	39%	3%	49%
	18L	56%	36%	61%	20%
	Total	100%	100%	100%	100%
All Aircraft	36R	21%	15%	21%	13%
	36L	15%	17%	15%	18%
	18R	31%	43%	23%	34%
	18L	33%	24%	41%	35%
	Total	100%	100%	100%	100%
Note: The three helipads are assumed to have equal use.					

Table 16. 2027, 2032, and 2037 Runway Utilization for Fixed-Wing Aircraft (Circuits)

Aircraft Category	Runway	Day	Night
Non-Jet	35R	18%	14%
	35L	22%	18%
	17R	28%	25%
	17L	32%	43%
	Total	100%	100%

3.5 Flight Track Geometry and Use

In addition to runway usage, radar data from the AUS NOMS provided an ideal source of information for identifying where aircraft fly and how often they use specific flight corridors in the vicinity of the airport. In the development of the AUS EA, sets of prototypical flight tracks were defined for noise modeling. Known as "backbones," these tracks follow the central tendency of more dispersed paths flown by aircraft along each major flight corridor. Additional model tracks were created to either side of the backbones to account for the dispersion within each corridor, and traffic is distributed normally[6] onto each track group to reflect the spreading of noise along the corridor.

Aircraft are assigned to specific modeling tracks based on historical averages determined through analysis of the radar data. Knowledge of destinations for departures from the airport or points of origin for arrivals to the airport are also considered. The standard procedure for model track development entails separating tracks by operation type, (e.g., arrival or departure), propulsion type (e.g., jet, or non-jet), and runway end. HMMH analyzed flight tracks with the same operation type, runway end, and propulsion type for similar geometry and this resulted in the final flight track bundles used to create model tracks.

Model flight tracks are labeled with a number following the designations distinguishing tracks that take different routes from the same runway end. For example, flight track A17LJ01 identifies an arrival flight track (A, as opposed to D if it were a departure) from Runway 17L (17L), the primary aircraft type, (J for jet, NJ for non-jet), and finally the number at the end of the track name differentiates it from others in its group (or bundle). As mentioned in Section 3.4, 2019 radar data utilized the old naming convention for the Runways. This is reflected in the bundling and flight track development but does not impact or change noise modeling as these flight tracks will be modeled on the current Runway name, and geographic coordinates for the 2027, 2032, and 2037 scenarios

All fixed-wing aircraft flight tracks start or end at runway ends. Helicopter tracks generally start and end at a defined helipad and thus are modeled as flights to and from the helipad. Due to the limited amount of helicopter and circuit flight track data contained in the NOMS, circuit tracks will be represented by generic pattern tracks on each runway, and helicopter tracks will be represented by north, south, east, and west straight-in and straight-out tracks from each helipad.

Table 17 presents the modeled flight track usage rates by runway end and aircraft type category, for fixed-wing arrivals and departures. There are no known changes to flight procedures expected at AUS as of February 2022, therefore the same flight track utilization will be used through all the future scenarios.

Figure 2 through **Figure 9** present the modeled flight track geometry, jet, and non-jet flight activity based on Runway end operation in both north flow (aircraft arrive from the south and depart to the north), and south flow (aircraft arrive from the north and depart to the south) conditions. These tracks were developed using calendar year 2019 data from the AUS NOMS. Underlaying the modeled flight tracks are the radar tracks from the NOMS.

Table 17. Modeled Fixed-wing Flight Track Utilization
Source: AUS NOMS, HMMH

Aircraft Type	Operation Type	Runway	Bundle Name	Percent
Jet	Arrivals	17L	A17LJ01	1.2%
			A17LJ02	1.0%
			A17LJ03	40.0%
			A17LJ04	1.4%
			A17LJ05	1.8%
			A17LJ06	14.5%
			A17LJ07	19.1%
			A17LJ08	8.3%
			A17LJ09	8.2%

[6] According to a statistical normal (Gaussian) distribution

Aircraft Type	Operation Type	Runway	Bundle Name	Percent
			A17LJ10	1.4%
			A17LJ11	2.5%
			A17LJ12	0.6%
			Total	100.0%
Non-Jet			A17LNJ01	11.7%
			A17LNJ02	8.8%
			A17LNJ03	12.5%
			A17LNJ04	7.3%
			A17LNJ05	5.3%
			A17LNJ06	15.9%
			A17LNJ07	13.1%
			A17LNJ08	10.1%
			A17LNJ09	6.1%
			A17LNJ10	6.2%
			A17LNJ11	2.8%
			Total	100.0%
Jet	Departures		D17LJ01	0.5%
			D17LJ02	9.4%
			D17LJ03	46.9%
			D17LJ04	5.5%
			D17LJ05	0.2%
			D17LJ06	3.2%
			D17LJ07	6.5%
			D17LJ08	2.8%
			D17LJ09	3.4%
			D17LJ10	9.9%
			D17LJ11	11.7%
			Total	100.0%
Non-Jet			D17LNJ01	6.8%
			D17LNJ02	10.8%
			D17LNJ03	3.6%
			D17LNJ04	2.8%
			D17LNJ05	15.6%
			D17LNJ06	11.0%
			D17LNJ07	2.2%
			D17LNJ08	8.0%
			D17LNJ09	4.2%
			D17LNJ10	5.7%

			D17LNJ11	17.2%
			D17LNJ12	12.2%
			Total	100.0%
Jet	Arrivals	17R	A17RJ01	2.3%
			A17RJ02	2.8%
			A17RJ03	3.6%
			A17RJ04	36.8%
			A17RJ05	5.1%
			A17RJ06	2.5%
			A17RJ07	30.7%
			A17RJ08	1.7%
			A17RJ09	0.7%
			A17RJ10	13.5%
			A17RJ11	0.2%
			A17RJ12	0.2%
			Total	100.0%
Non-Jet			A17RNJ01	2.8%
			A17RNJ02	31.7%
			A17RNJ03	13.0%
			A17RNJ04	7.7%
			A17RNJ05	13.5%
			A17RNJ06	31.3%
			Total	100.0%
Jet	Departures		D17RJ01	0.3%
			D17RJ02	12.1%
			D17RJ03	1.0%
			D17RJ04	0.2%
			D17RJ05	3.2%
			D17RJ06	0.6%
			D17RJ07	32.7%
			D17RJ08	7.0%
			D17RJ09	8.7%
			D17RJ10	33.5%
			D17RJ11	0.7%
			Total	100.0%
Non-Jet			D17RNJ01	2.3%
			D17RNJ02	41.5%
			D17RNJ03	17.1%

Aircraft Type	Operation Type	Runway	Bundle Name	Percent
			D17RNJ04	25.9%
			D17RNJ05	10.8%
			D17RNJ06	2.4%
			Total	100.0%
Jet	Arrivals	35L	A35LJ01	27.1%
			A35LJ02	28.1%
			A35LJ03	2.6%
			A35LJ04	1.6%
			A35LJ05	1.3%
			A35LJ06	20.7%
			A35LJ07	2.0%
			A35LJ08	15.5%
			A35LJ09	0.6%
			A35LJ10	0.2%
			A35LJ11	0.3%
			Total	100.0%
Non-Jet			A35LNJ01	12.6%
			A35LNJ02	6.5%
			A35LNJ03	5.0%
			A35LNJ04	29.1%
			A35LNJ05	44.0%
			A35LNJ06	2.7%
			Total	100.0%
Jet	Departures		D35LJ01	0.5%
			D35LJ02	0.4%
			D35LJ03	11.3%
			D35LJ04	0.3%
			D35LJ05	2.9%
			D35LJ06	38.5%
			D35LJ07	6.4%
			D35LJ08	39.5%
			Total	100.0%
Non-Jet			D35LNJ01	3.5%
			D35LNJ02	41.8%
			D35LNJ03	14.2%
			D35LNJ04	36.9%
			D35LNJ05	3.5%
			Total	100.0%

Aircraft Type	Operation Type	Runway	Bundle Name	Percent
Jet	Arrivals	35R	A35RJ01	7.9%
			A35RJ02	1.6%
			A35RJ03	1.0%
			A35RJ04	2.7%
			A35RJ05	47.1%
			A35RJ06	2.8%
			A35RJ07	2.0%
			A35RJ08	33.4%
			A35RJ09	0.6%
			A35RJ10	0.3%
			A35RJ11	0.3%
			A35RJ12	0.1%
			A35RJ13	0.1%
			Total	100.0%
Non-Jet			A35RNJ01	2.3%
			A35RNJ02	12.0%
			A35RNJ03	7.4%
			A35RNJ04	7.1%
			A35RNJ05	4.8%
			A35RNJ06	9.7%
			A35RNJ07	12.2%
			A35RNJ08	12.8%
			A35RNJ09	7.8%
			A35RNJ10	6.7%
			A35RNJ11	17.4%
			Total	100.0%
Jet	Departures		D35RJ01	0.5%
			D35RJ02	10.9%
			D35RJ03	1.2%
			D35RJ04	66.0%
			D35RJ05	1.8%
			D35RJ06	3.5%
			D35RJ07	3.2%
			D35RJ08	2.4%
			D35RJ09	0.4%
			D35RJ10	9.8%
			D35RJ11	0.2%
			Total	100.0%

Aircraft Type	Operation Type	Runway	Bundle Name	Percent
Non-Jet			D35RNJ01	5.1%
			D35RNJ02	6.6%
			D35RNJ03	6.7%
			D35RNJ04	10.4%
			D35RNJ05	5.9%
			D35RNJ06	7.4%
			D35RNJ07	4.9%
			D35RNJ08	9.8%
			D35RNJ09	11.6%
			D35RNJ10	15.4%
			D35RNJ11	6.1%
			D35RNJ12	6.9%
			D35RNJ13	3.3%
			Total	100.0%

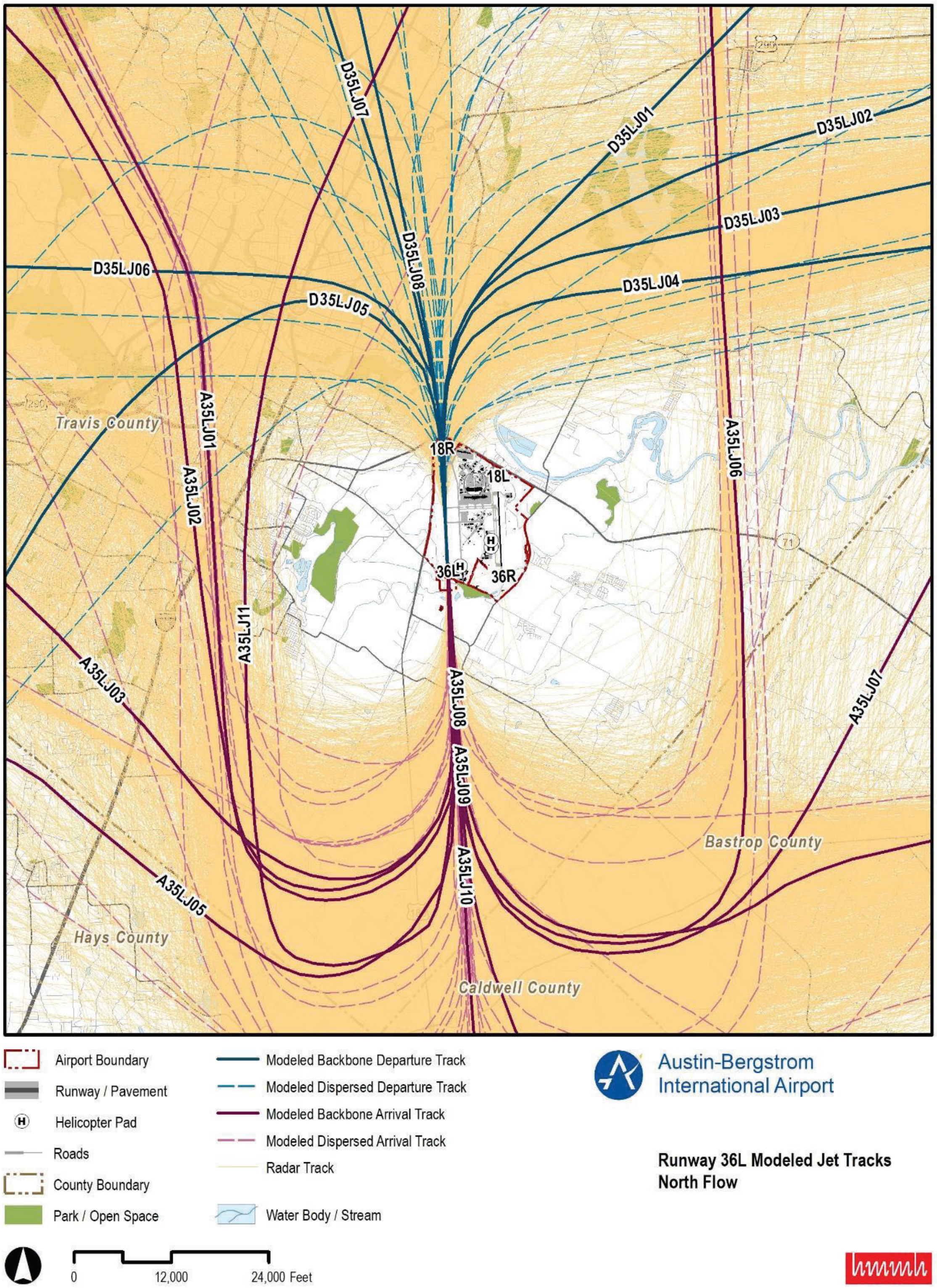


Figure 2. Runway 36L Modeled Jet Tracks, North Flow

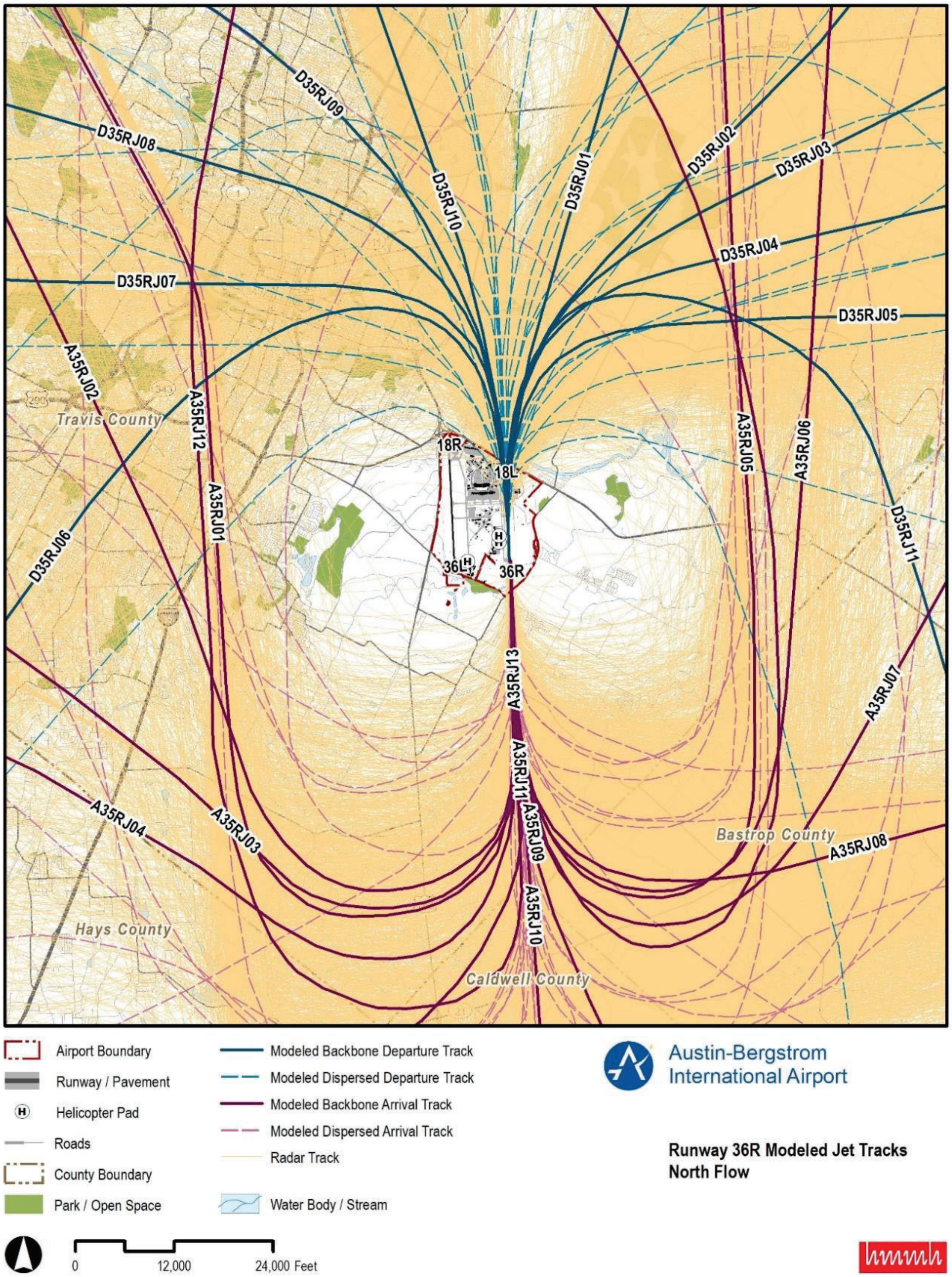


Figure 3: Runway 36R Modeled Jet Tracks, North Flow

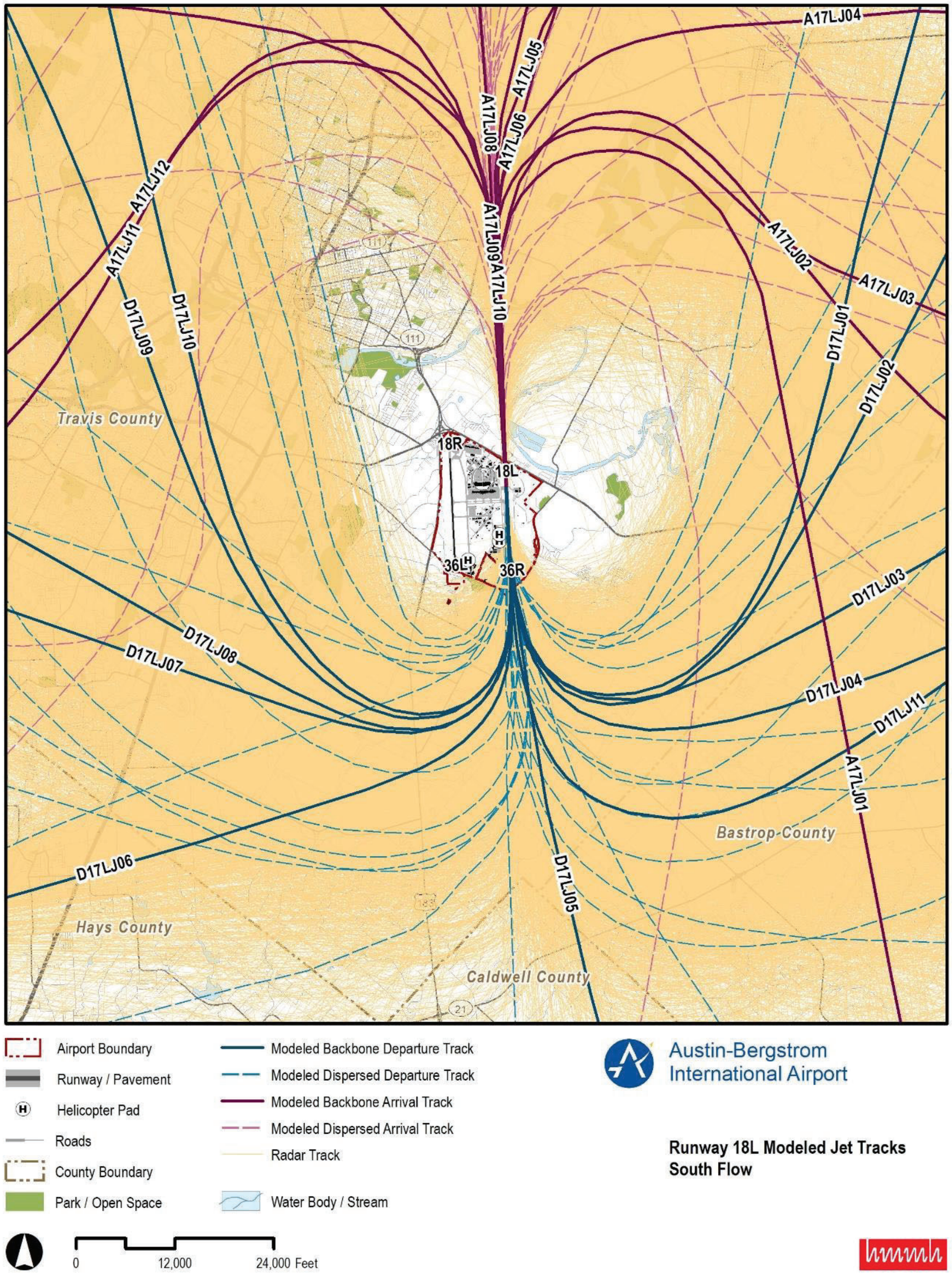


Figure 4: Runway 18L Modeled Jet Tracks, South Flow

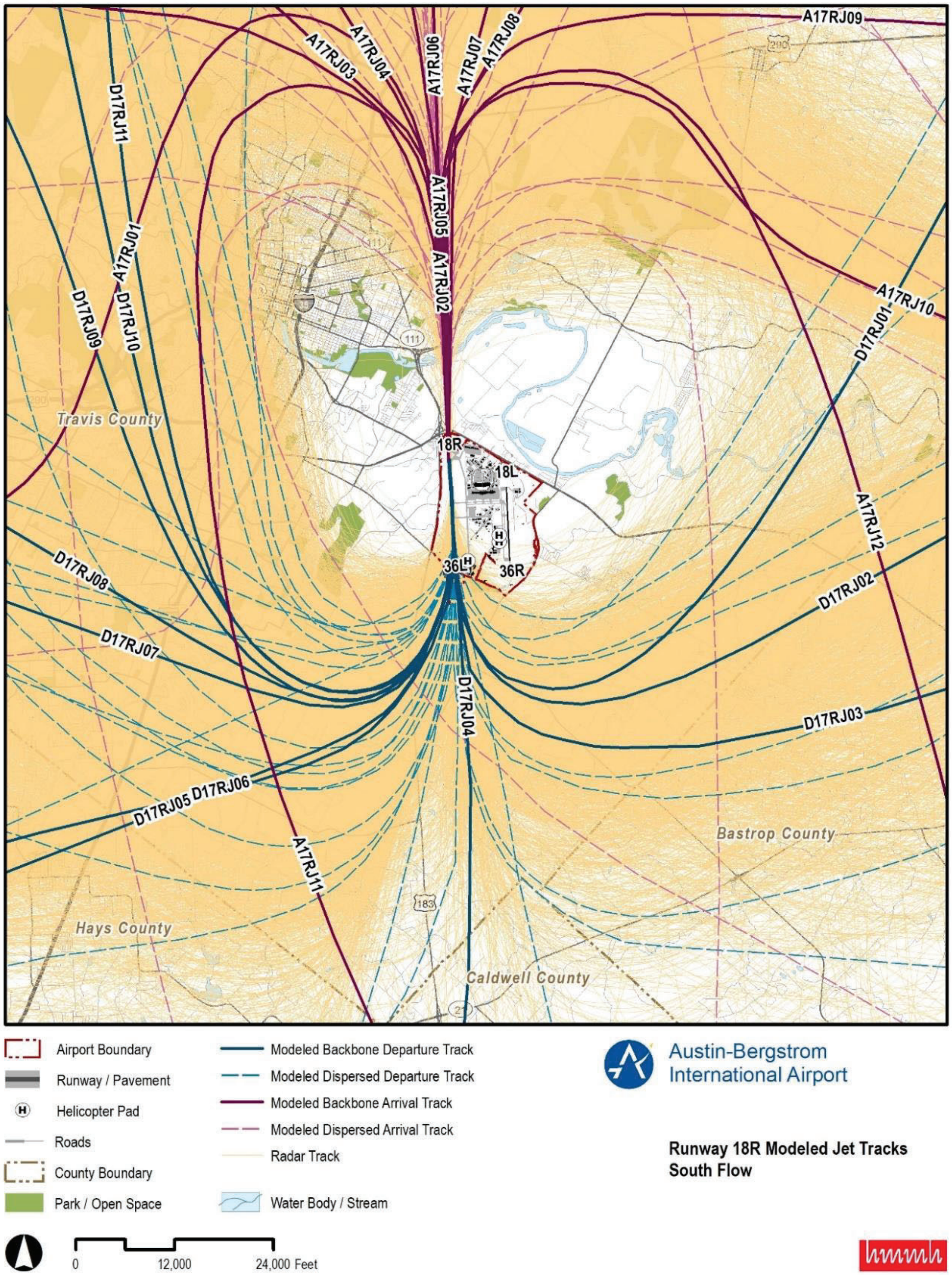


Figure 5: Runway 18R Modeled Jet Tracks, South Flow

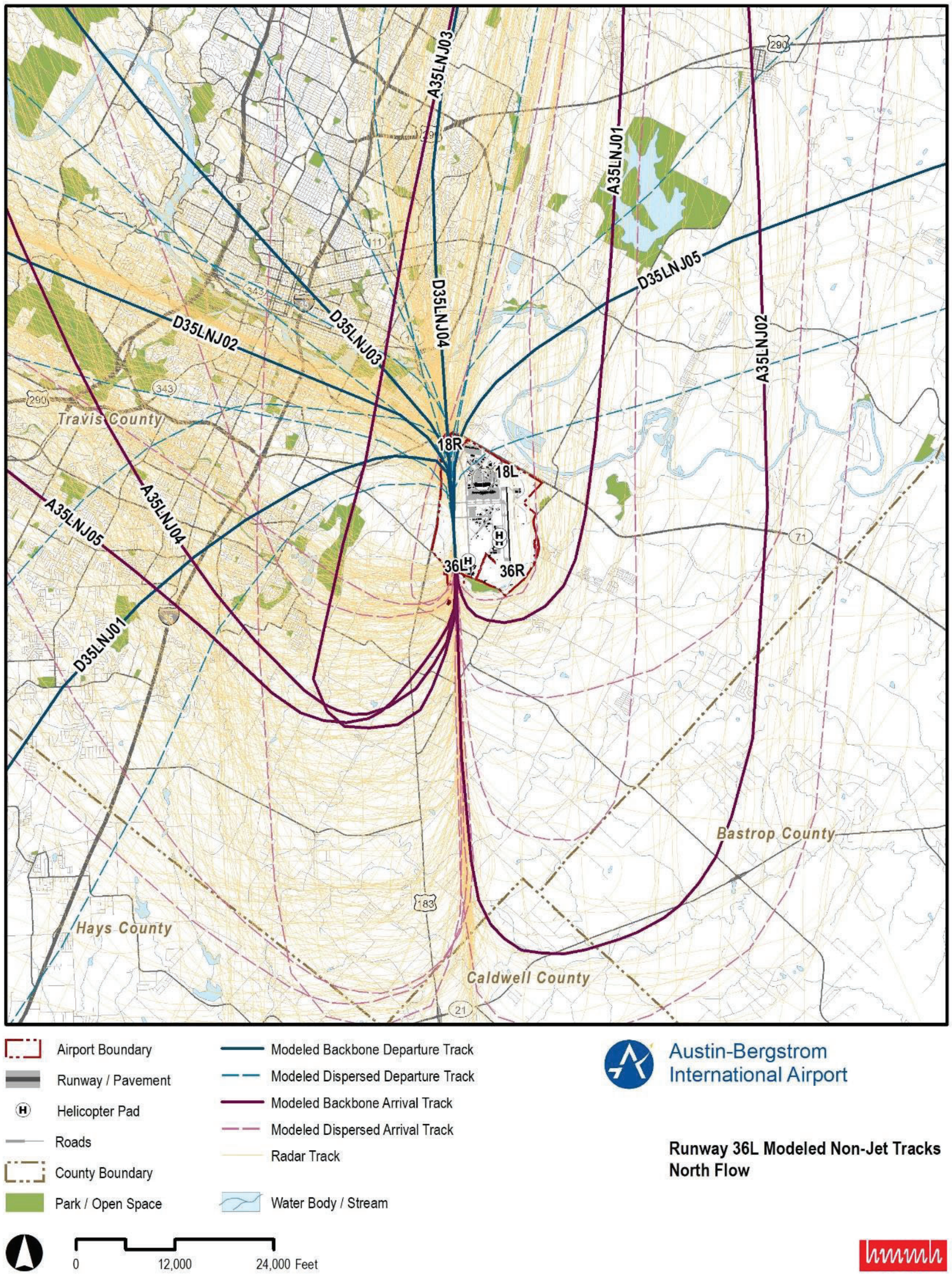


Figure 6: Runway 36L Modeled Non-Jet Tracks, North Flow

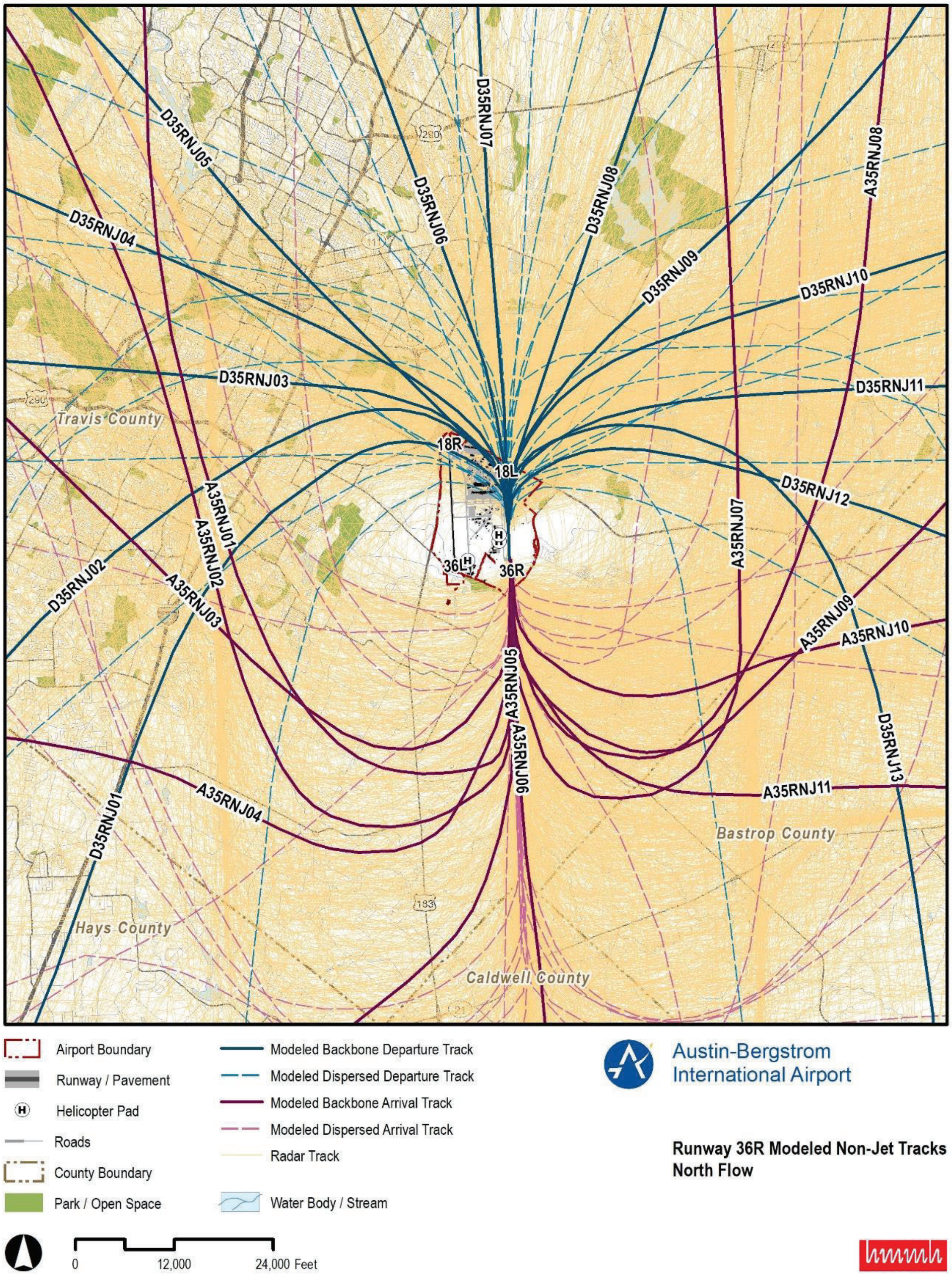


Figure 7: Runway 36R Modeled Non-Jet Tracks, North Flow

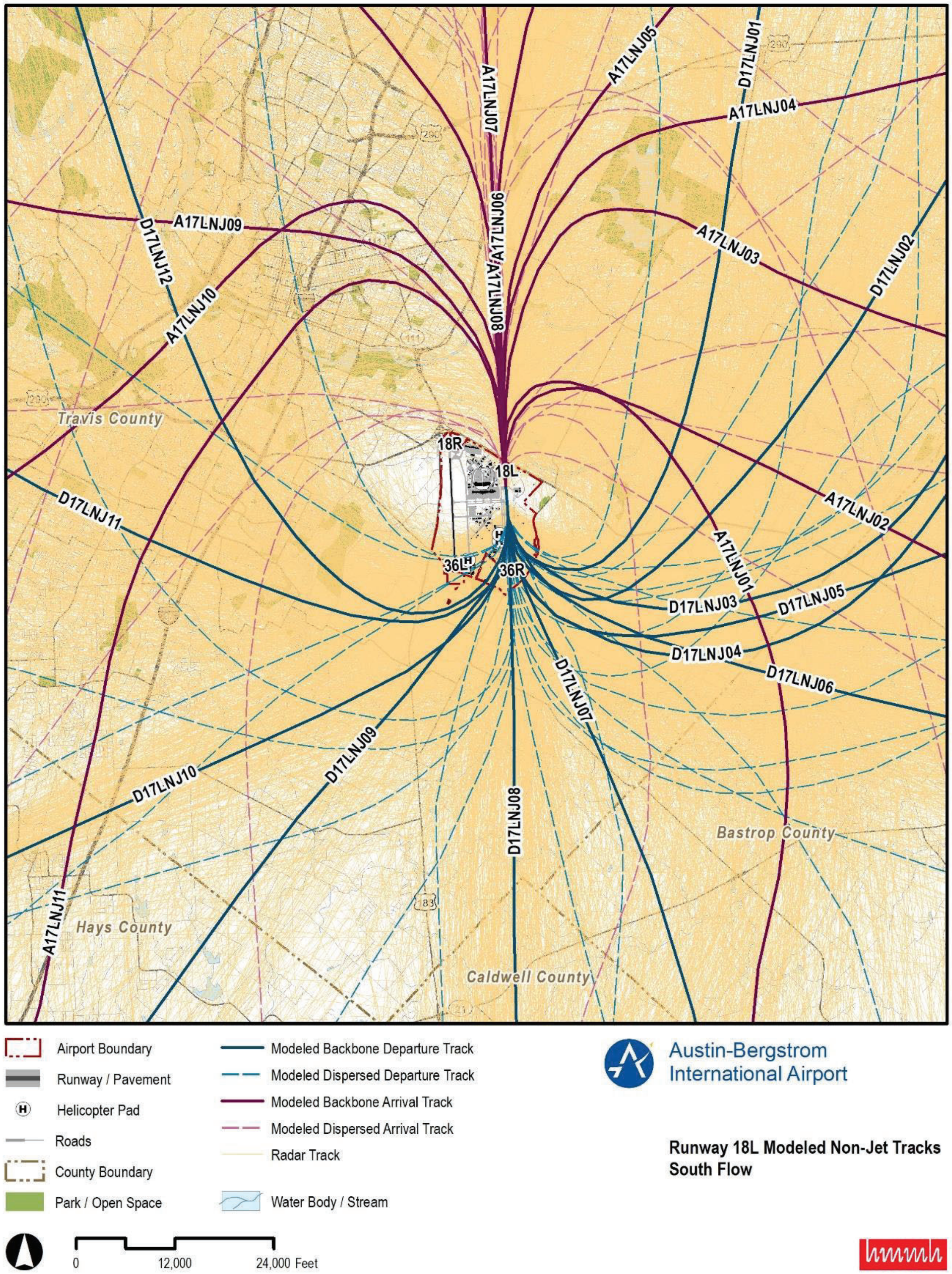


Figure 8: Runway 18L Modeled Non-Jet Tracks, South Flow

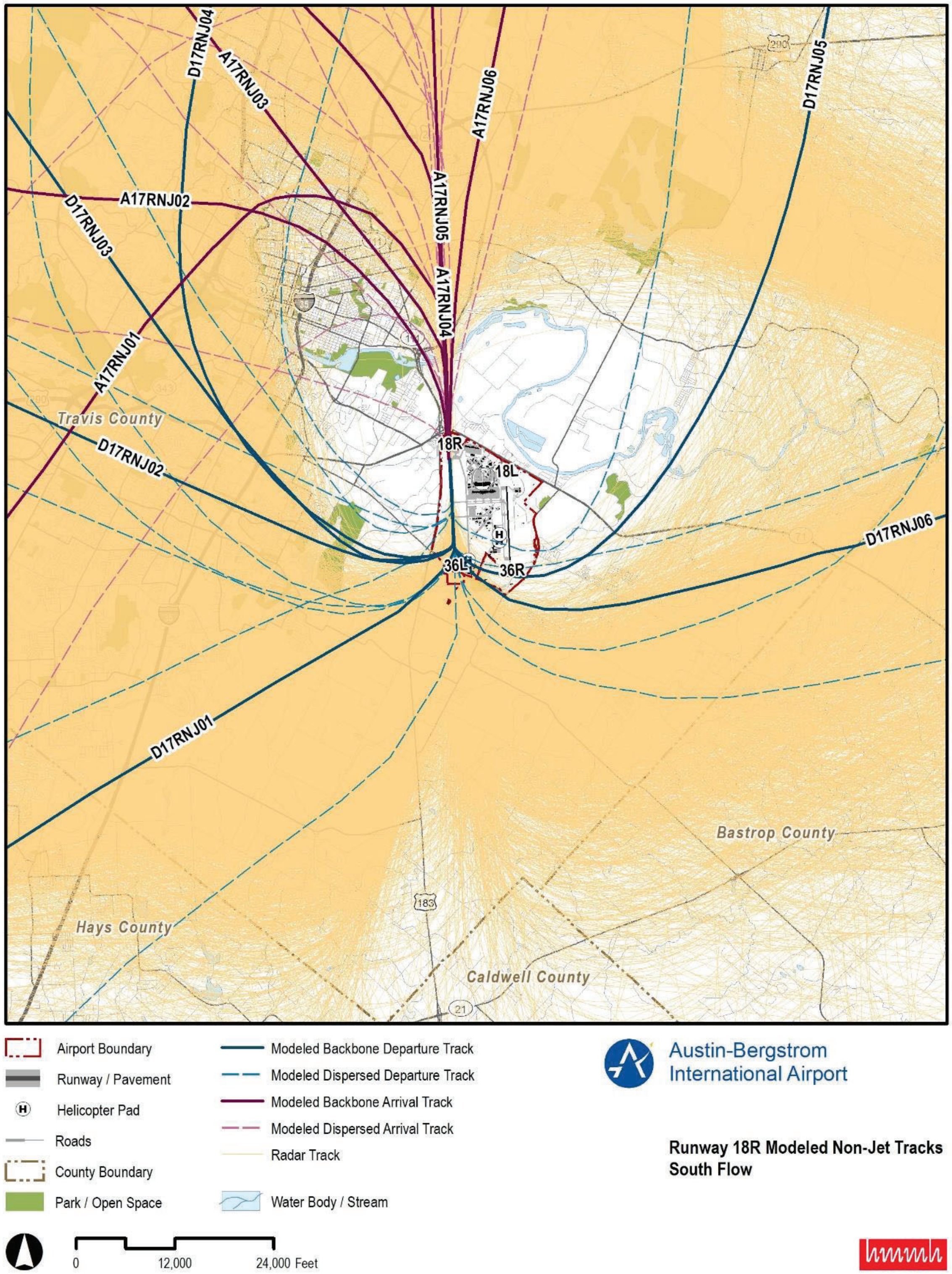


Figure 9: Runway 18R Modeled Non-Jet Tracks, South Flow

3.6 Meteorological Data

Meteorological settings within the AEDT affect its calculation of aircraft performance profiles and sound propagation. These settings include average annual temperature, barometric pressure, relative humidity, and average headwind speed. The AEDT contains standard reference climatological data for airports throughout the US.

The noise modeling will utilize the following average data for AUS from the AEDT database:

- Temperature: 68.58 F
- Station Pressure: 998.08 mbar
- Sea Level Pressure: 1016.02 mbar
- Dew point: 57.52° F
- Relative humidity: 67.93%

The headwind speed will be set to the AEDT default of 6.81 knots.

3.7 Aircraft Maintenance Run-up Activity

HMMH was provided a maintenance run-up log from ABIA staff. This log showed that 22 Run-ups were logged by ABIA operations staff in 2019. Aircraft run-ups all occur on the Maintenance Ramp located to the East of Taxiway C, South of Taxiway H, between Taxiway S and Taxiway T. This location is roughly centered between the two Runways and is centrally located South of the main terminal complex. As such, run-up activity will likely not have any influence on the 65 DNL contour. Because of this, run-ups will not be modeled for this EA.

3.8 Terrain

Terrain data describes the elevation of the ground surrounding the airport, and on airport property. The AEDT uses terrain data to adjust the ground level under the flight paths. The terrain data does not affect the aircraft's performance or noise levels but does affect the vertical distance between the aircraft and a "receiver" on the ground. This in turn affects assumptions about how noise propagates over ground. The National Elevation Dataset (NED) 1/3 arc second terrain data were obtained from the United States Geological Survey (USGS).[7] The NED data set has a resolution of 10 meters or approximately 33 feet.

4. Noise Analysis Results

DNL contours are the primary mechanism for evaluating airport noise in this EA. A supplemental grid point analysis investigates precisely where and to what extent noise exposure changes would be expected to occur. An inventory of the acreage, population, and housing units within the various bands of noise exposure provides additional information.

4.1 DNL Contours

Noise modeling for this EA was conducted using the FAA's AEDT Version 3d. **Figures 10 through 14** present the required DNL contours of 65 dB, 70 dB, and 75 dB, and for informational purposes only, the 60 dB DNL contour is depicted as a dashed line on each figure. FAA considers a DNL of 65 dB as the threshold below which all land uses are compatible.

Figure 10 depicts the Existing Conditions noise environment, based on actual 2019 aircraft operations, and also shows the underlying land use types. As shown, The 65 DNL noise contour extends primarily north and south of the runways, along the aircraft approach and departure paths to and from Runways 18L-36R and 18R-36L. The figure also shows individual noise sensitive locations such as schools and places of worship. The FAA's guidelines for land use compatibility presented in Appendix A of 14 CFR Part 150

[7] Data downloaded from https://viewer.nationalmap.gov/basic/?howTo=true in 1/3 Arc second GeoTIFF format.

state that all land uses are generally compatible with aircraft noise below 65 dB DNL. The 65 dB DNL noise contour for Runway 18R-36L extends into mostly vacant land to the north and south. A small portion to the north of Runway 18R-36L falls within single family residential mobile home land use. A small portion to the west of Runway 18R-36L encompasses a small area of possible single family and multi-family residential land use area. The 65 DNL noise contour for Runway 18L-36R extends to the north and south into commercial, industrial, recreation, and public land uses. The Proposed Action would not result in a DNL 1.5 dB increase over any noise sensitive sites, therefore, there would be no significant noise impact on the surrounding community. Therefore, no mitigation is required. However, the Airport will assess the introduction of the twenty-three additional residential housing units in the 2032 proposed action as compared to the 2019 baseline, in relation to their Noise Compatibility Program to determine whether the units qualify for noise mitigation under 14 CFR Part 150.

Figure 11 shows the 65+ DNL contours for the 2027 Action and No Action, including individual noise sensitive locations such as schools and places of worship. The 65 dB DNL noise contour for Runway 18R-36L extends into mostly vacant land to the north and south. A small portion to the north of Runway 18R-36L falls within single family residential and mobile home land use. A small portion to the west of Runway 18R-36L encompasses a small area of possible single family and multi-family residential land use area. The 65 DNL noise contour for Runway 18L-36R extends to the north and south into commercial, industrial, recreation, and public land uses.

Figure 12 shows the DNL contours for the 2027 Proposed Action. The 65 dB DNL noise contour for Runway 18R-36L extends into mostly vacant land to the north and south. A small portion to the north of Runway 18R-36L falls within single family residential mobile home land use. A small portion to the west of Runway 18R-36L encompasses a small area of possible single family and multi-family residential land use area. The 65 DNL noise contour for Runway 18L-36R extends to the north and south into commercial, industrial, recreation, and public land uses.

Figure 13 and **Figure 14** portray the DNL contours for the No-Action Alternative and Proposed Action Alternative, respectively, for 2032, representing the forecast five years beyond the target design year. The 2032 Proposed Action 65 DNL noise contour encompasses a slightly larger area compared to the No Action case. The difference in size of the noise exposure contours are a result of the expected increase in passenger aircraft operations related to the expansion. The shape of the contours are essentially the same, as runway usage, flight track geometry, and flight track usage assumptions were held constant.

Figure 13 shows the 65+ dB DNL noise contours for the 2032 No Action Alternative, including individual noise sensitive locations such as schools and places of worship. The 65 dB DNL noise contour for Runway 18R-36L extends into mostly vacant land to the north and south. A small portion to the north of Runway 18R-36L falls within mobile home land use. A small portion to the west of Runway 18R-36L encompasses a small area of single family and multi-family residential land use area. The 65 DNL noise contour for Runway 18L-36R extends to the north and south into commercial, industrial, recreation, and public land uses. No individual noise sensitive locations such as schools or houses of worship lie within the 65+ dB DNL noise contours for the 2032 No Action Alternative.

Figure 14 shows the 2032 Proposed Action DNL noise contours. The 65 dB DNL noise contour for Runway 18R-36L extends into mostly vacant land to the north and south. A small portion to the north of Runway 18R-36L falls within mobile home land use. A small portion to the west of Runway 18R-36L encompasses a small area of single family and multi-family residential land use area. The 65 DNL noise contour for Runway 18L-36R extends to the north and south into commercial, industrial, recreation, and public land uses. No individual noise sensitive locations such as schools or houses of worship lie within the 65+ dB DNL noise contours for the 2032 Proposed Action.

Figure 15 shows the 2037 Proposed Action DNL noise contours for informational purposes only.

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Figure 10. Existing Conditions (2019) DNL Contours

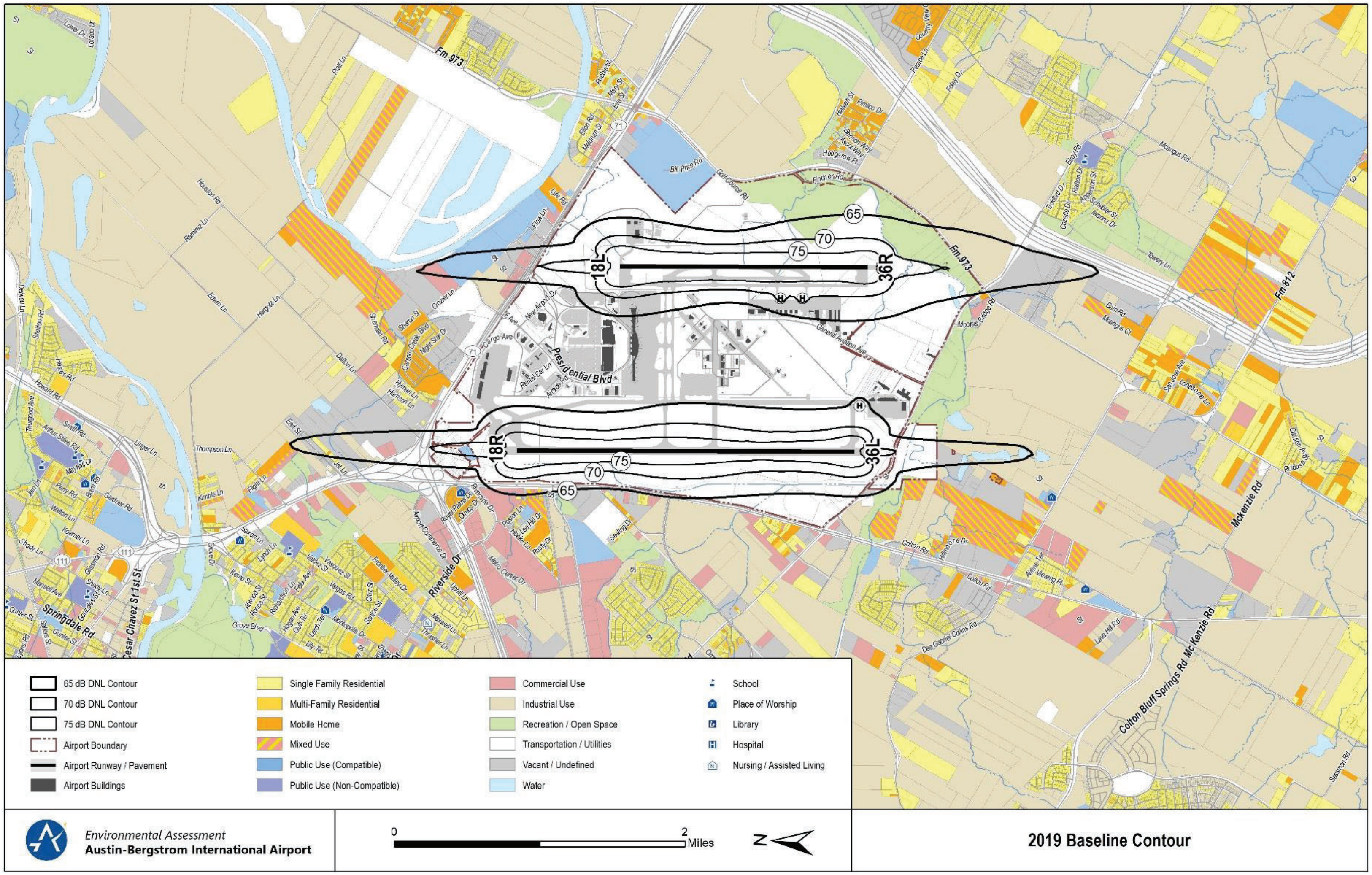


Figure 11. 2027 No-Action Alternative DNL Contours

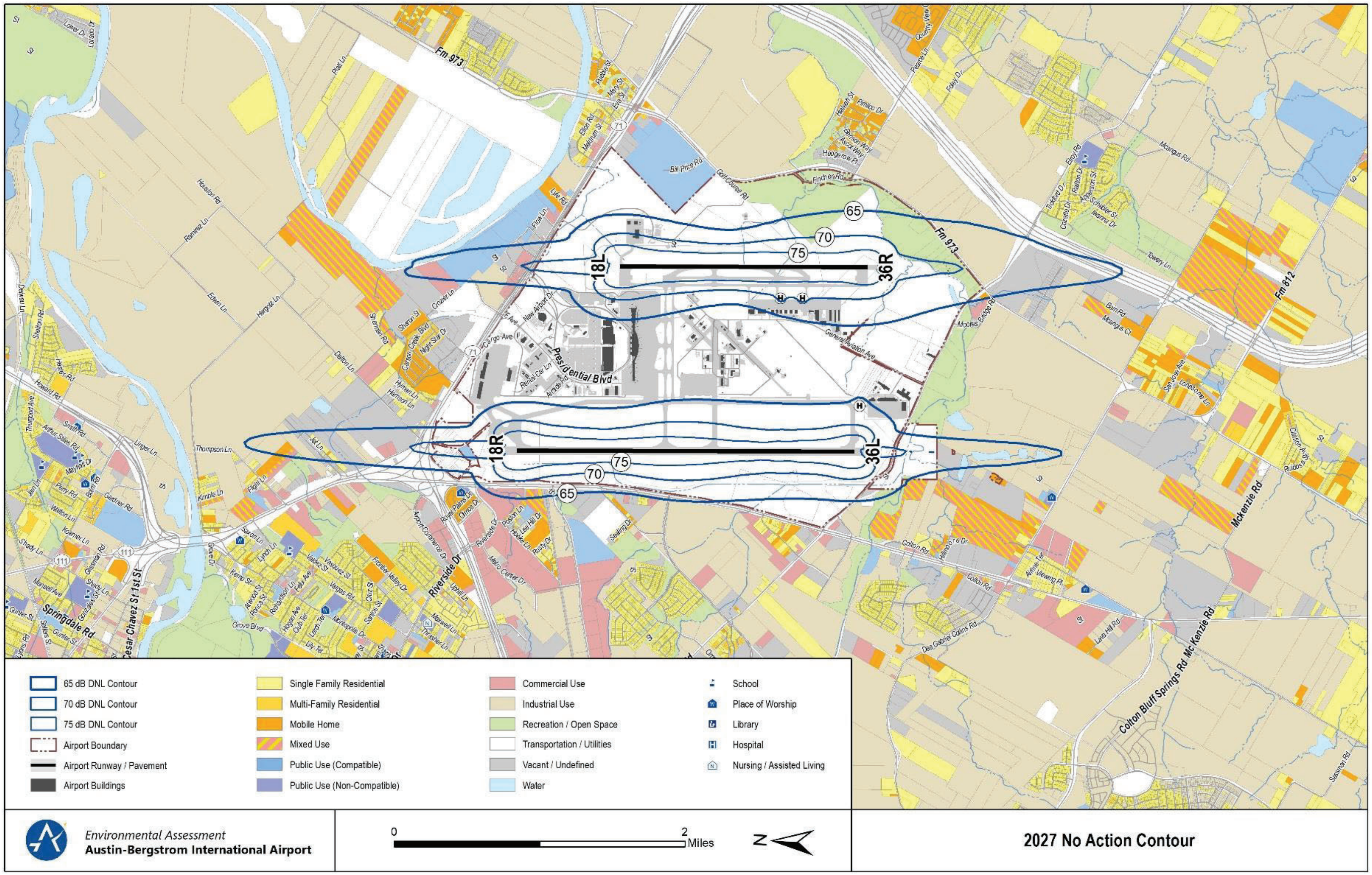


Figure 12. 2027 Proposed Action DNL Contours

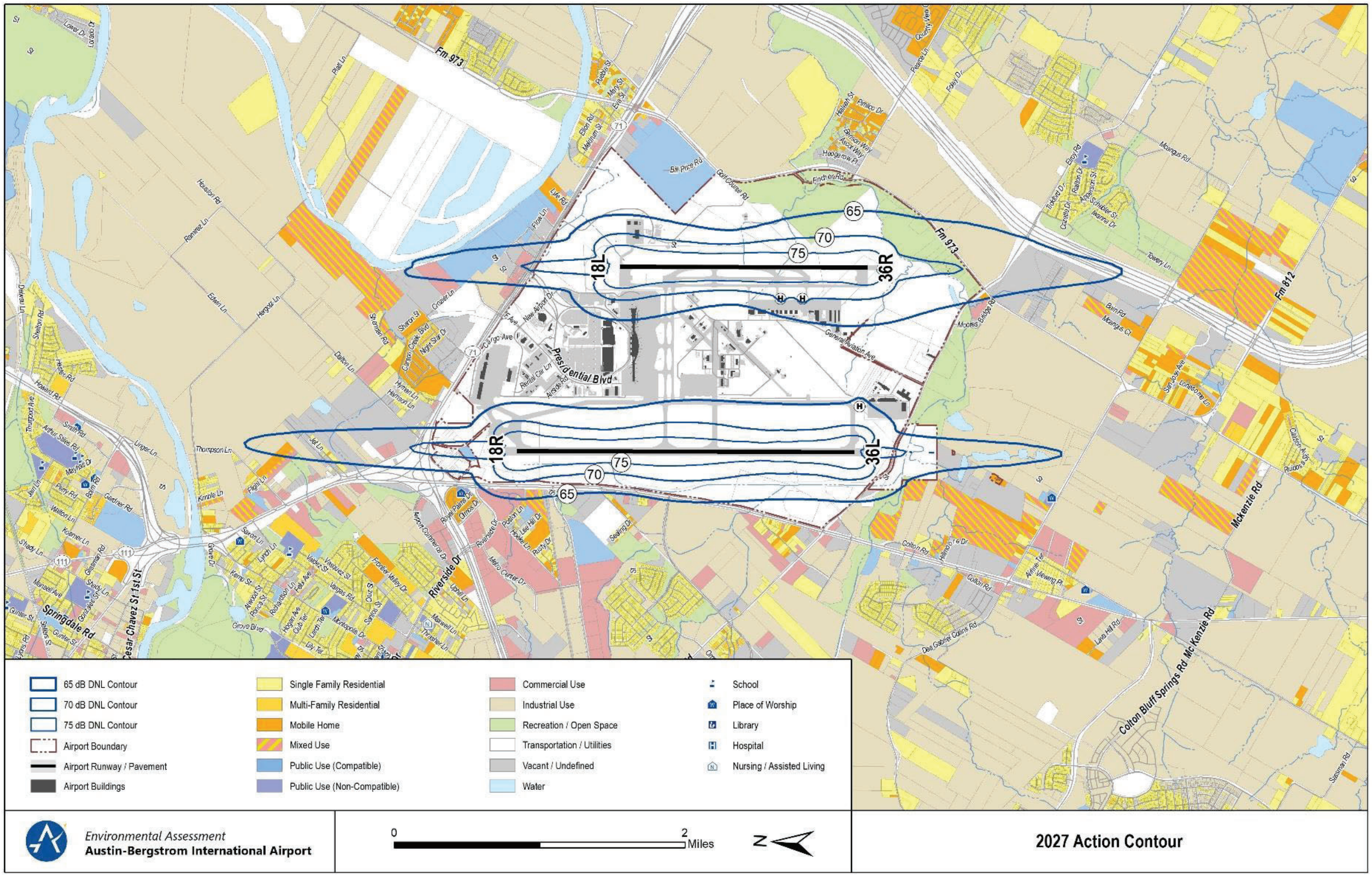


Figure 13. 2032 No-Action Alternative DNL Contours

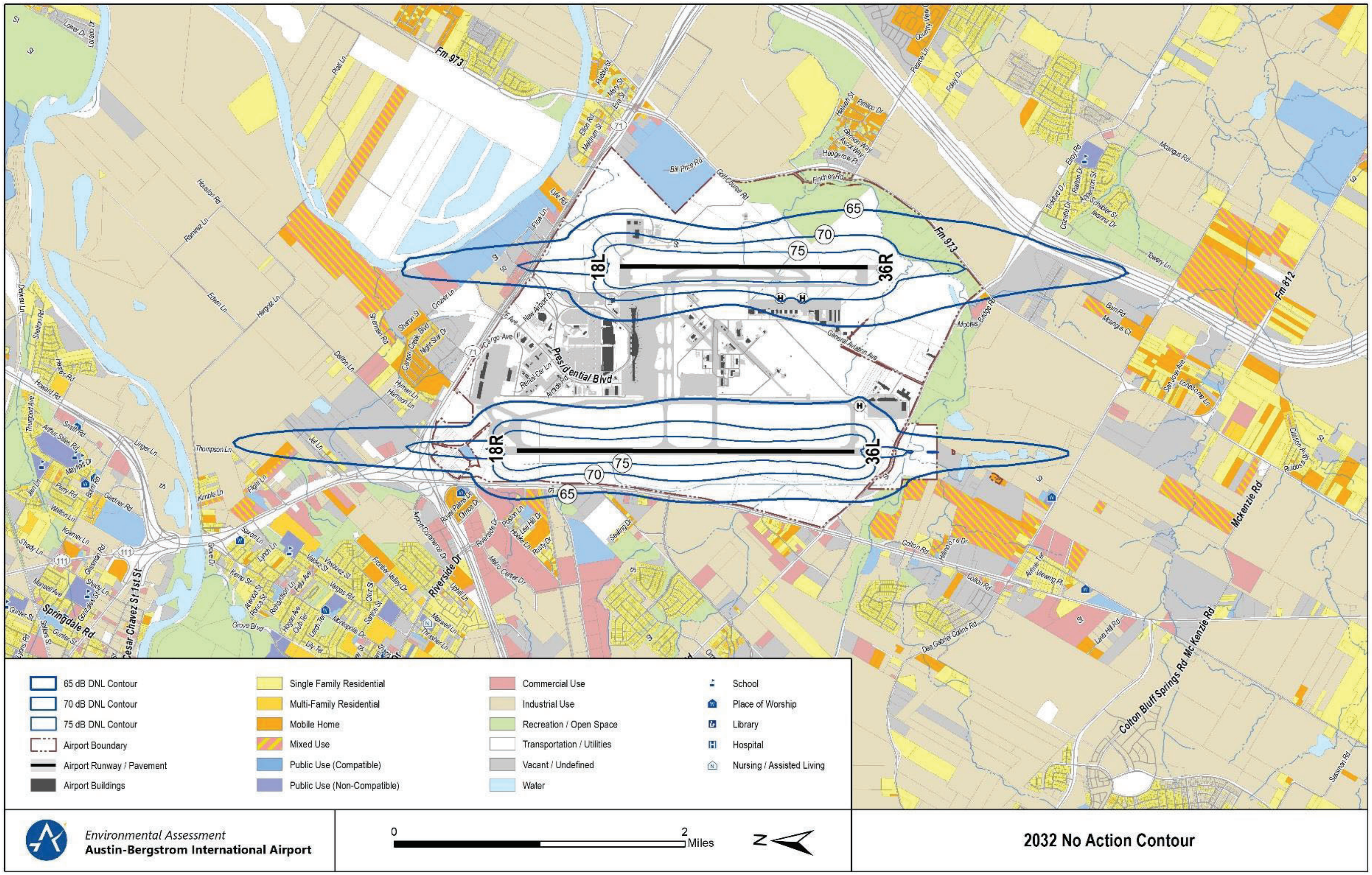


Figure 14. 2032 Proposed Action DNL Contours

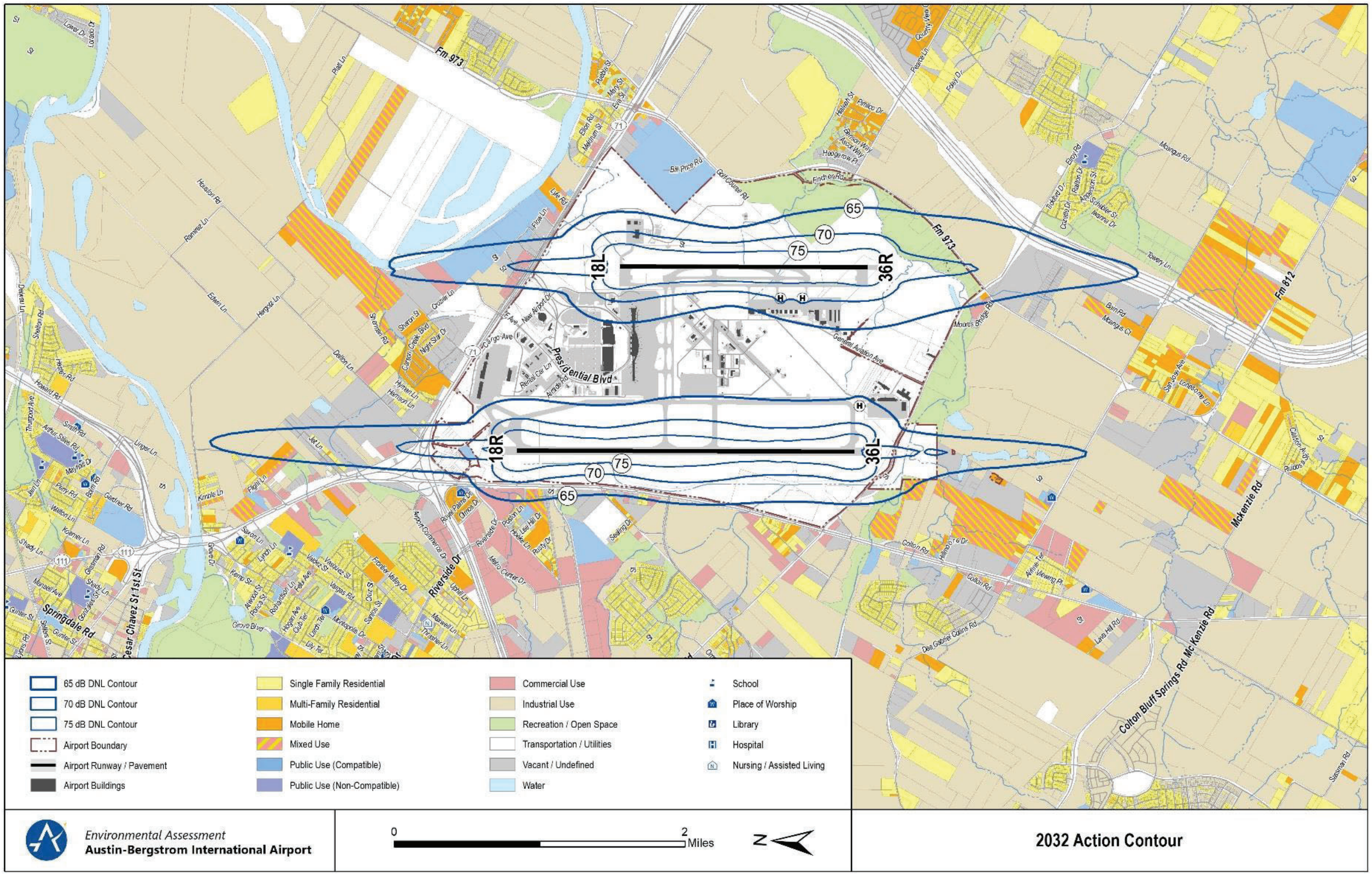


Figure 15. 2037 Proposed Action DNL Contours

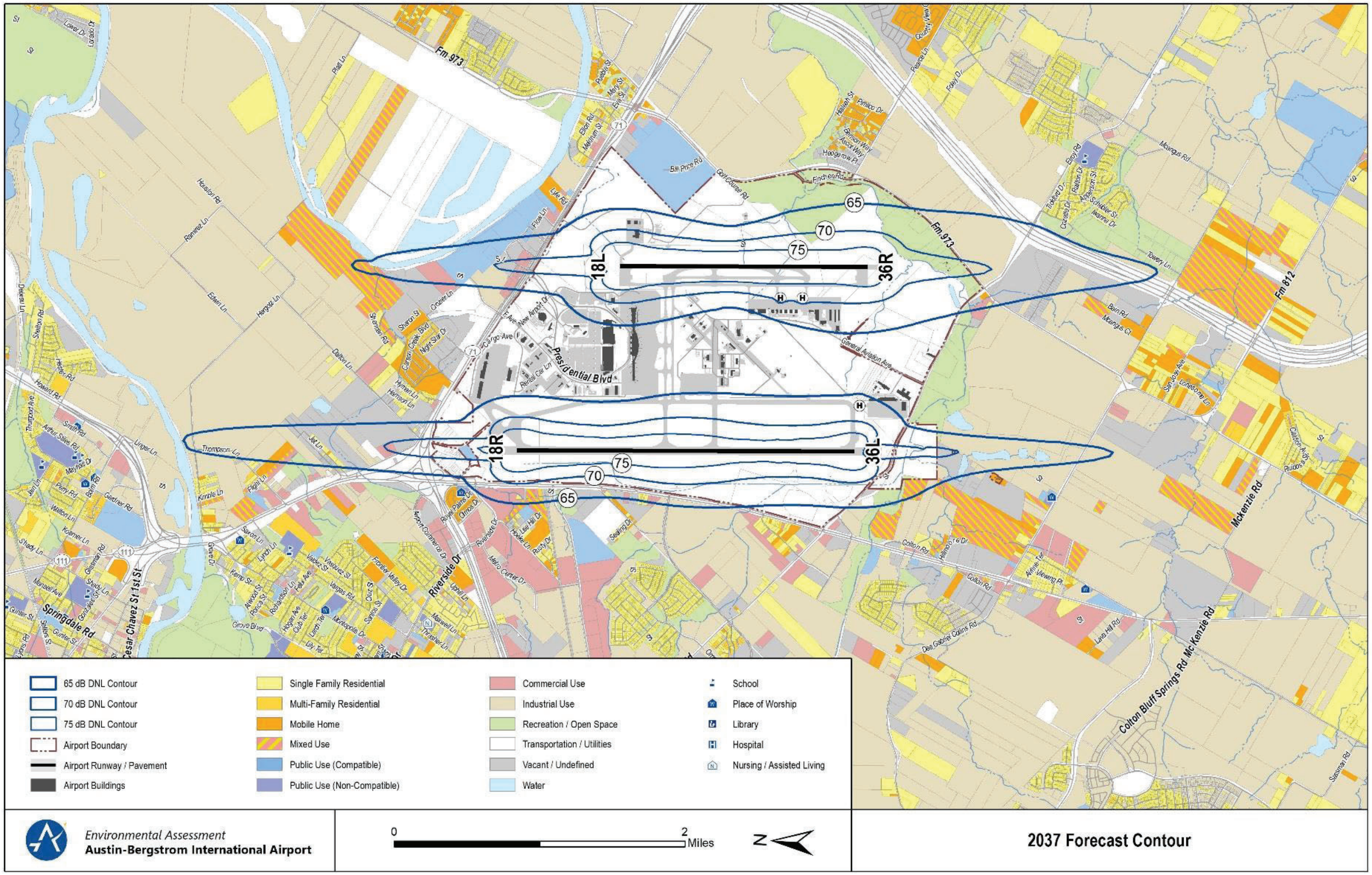


Figure 16. 2019 Existing Conditions DNL Contours w/ Inset

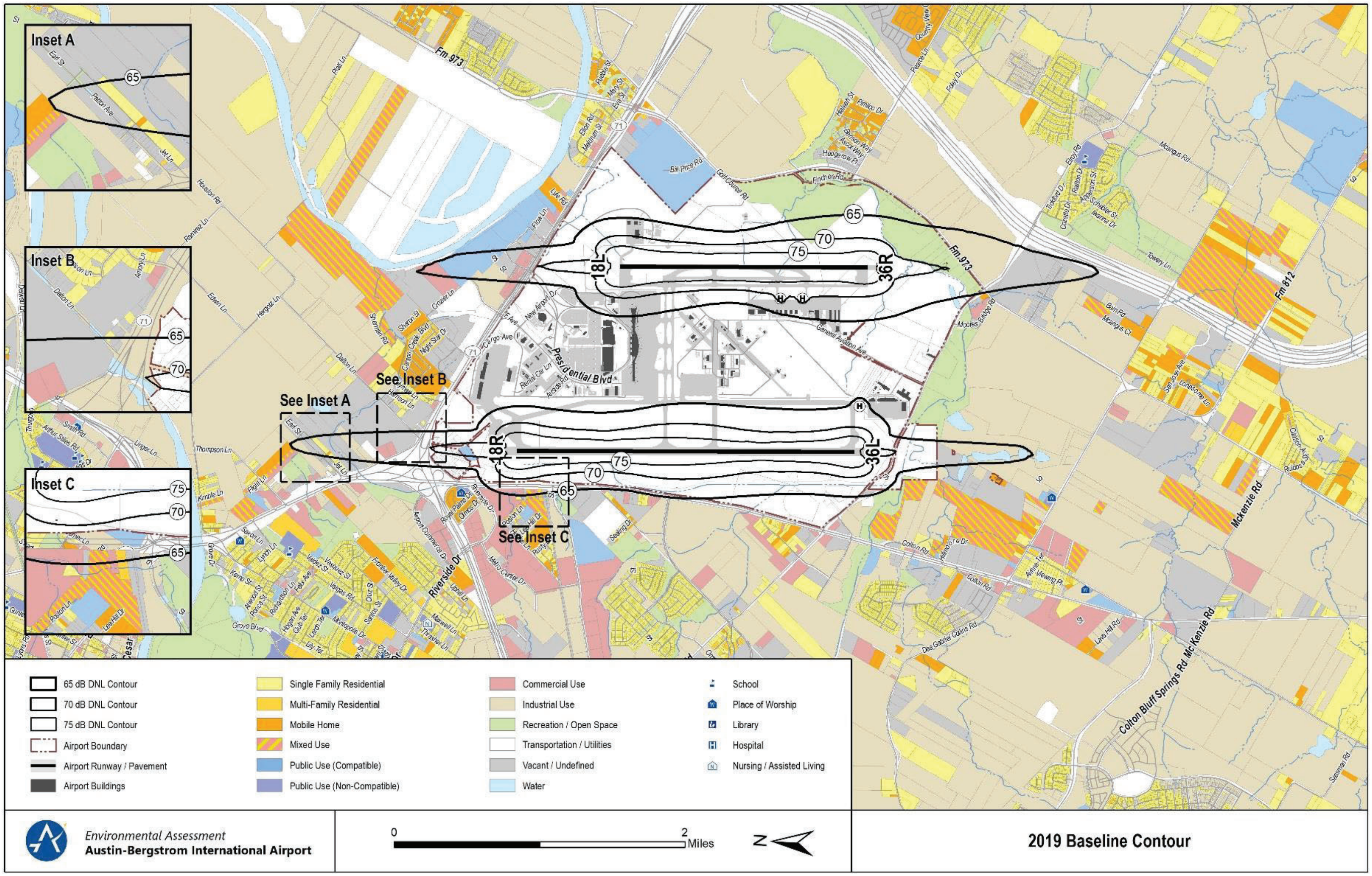


Figure 17. 2027 No Action DNL Contours w/ Inset

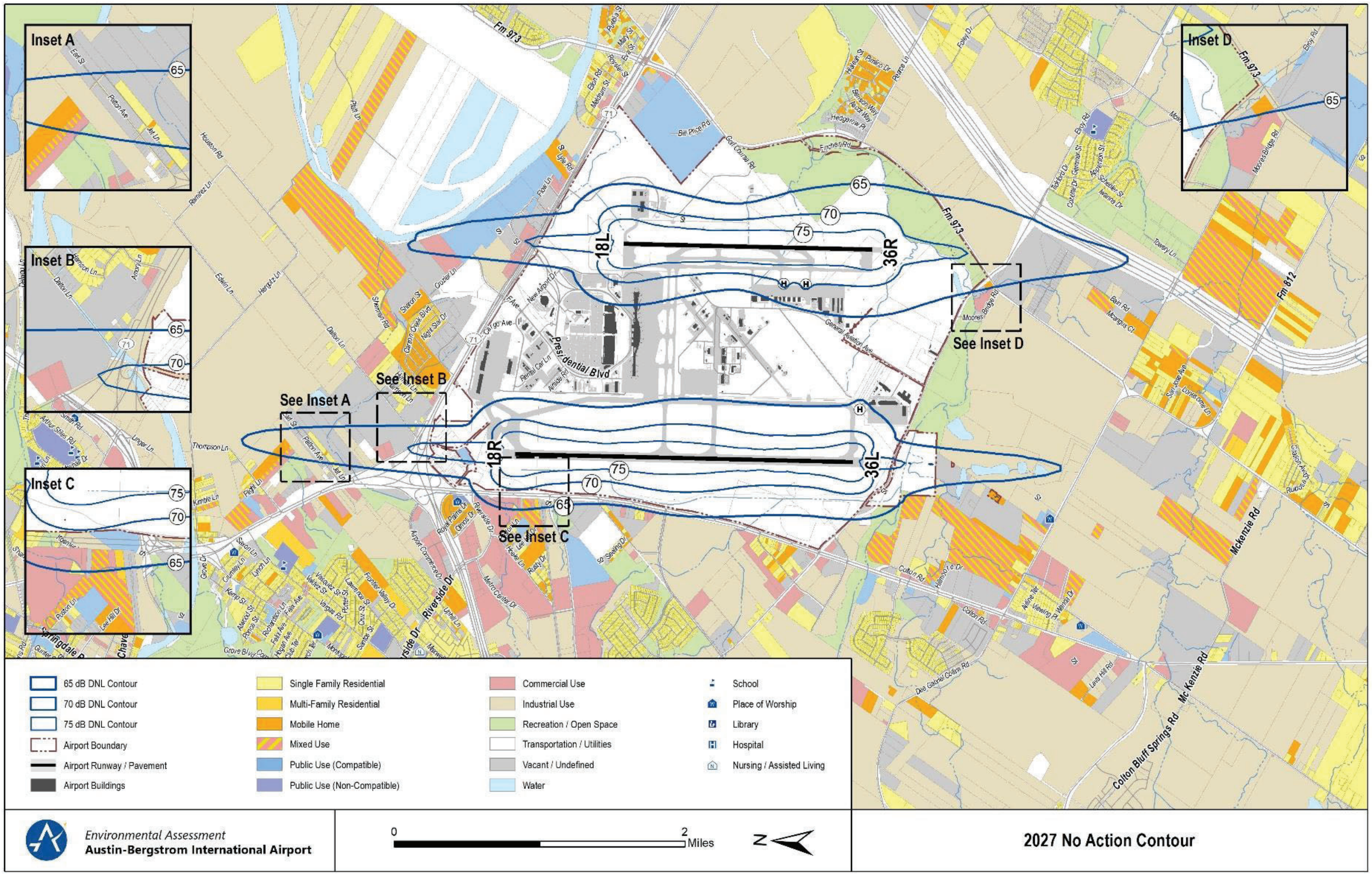


Figure 18. 2027 Proposed Action DNL Contours w/ Inset

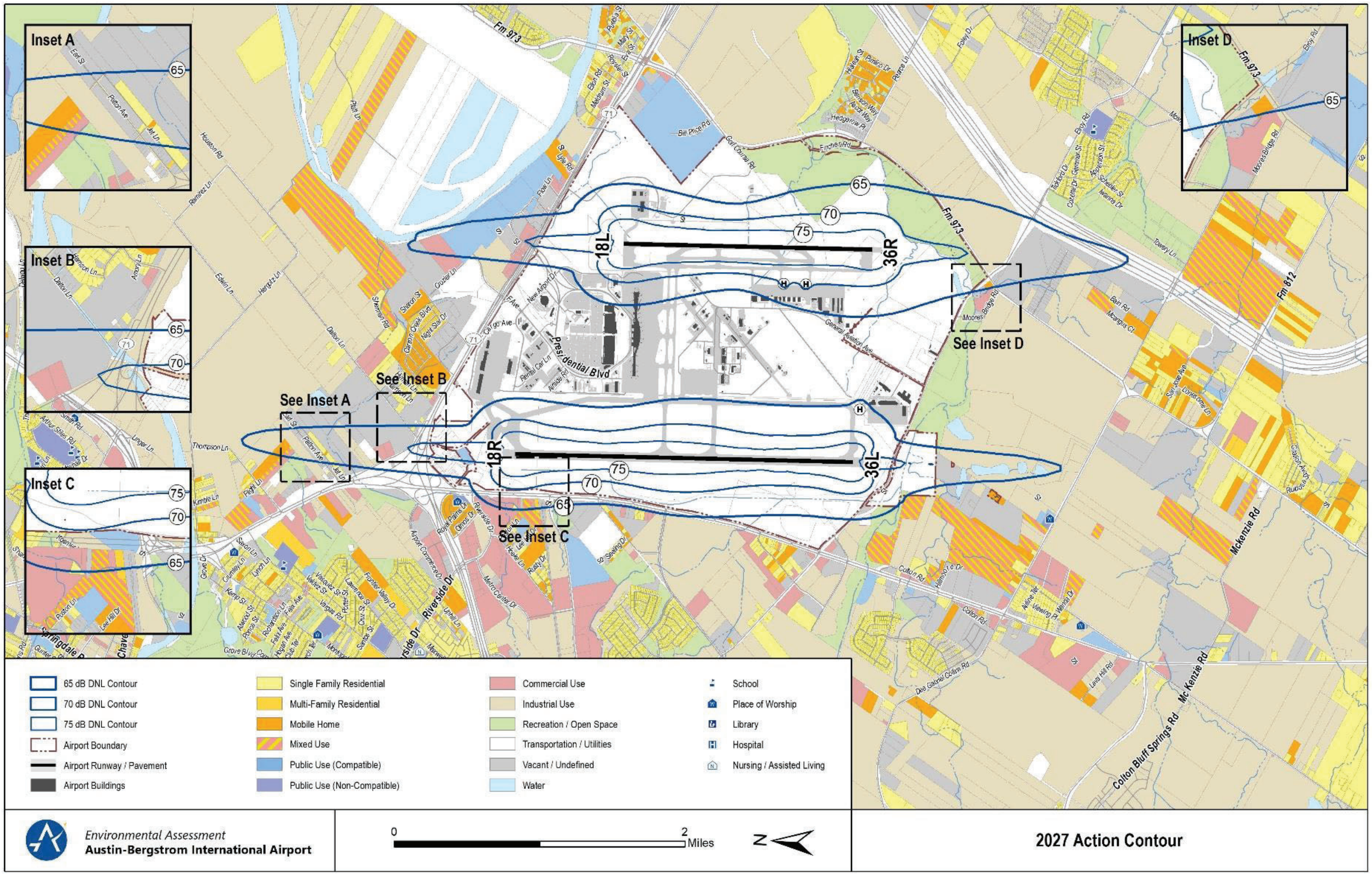


Figure 19. 2032 No Action DNL Contours w/ Inset

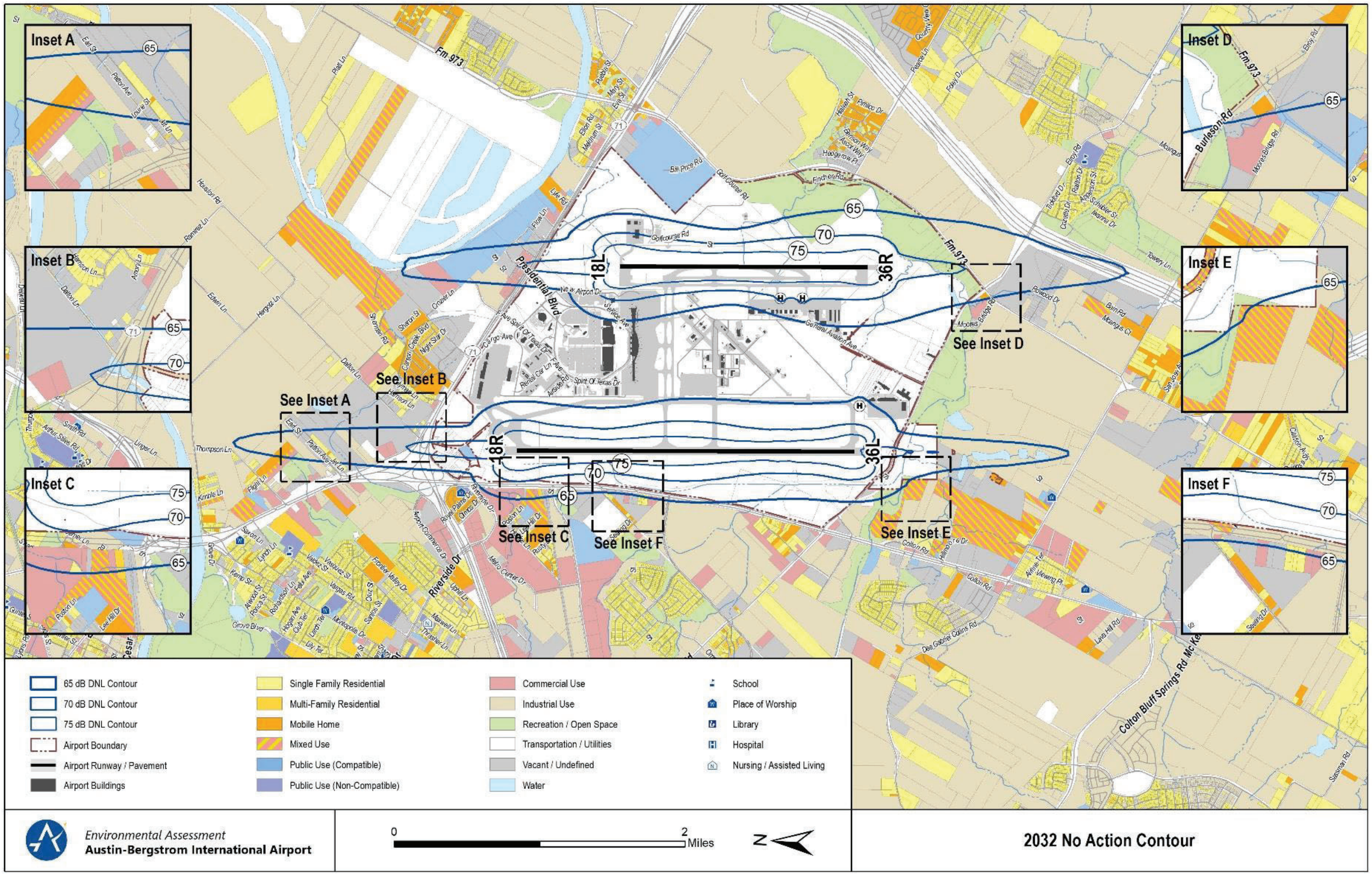
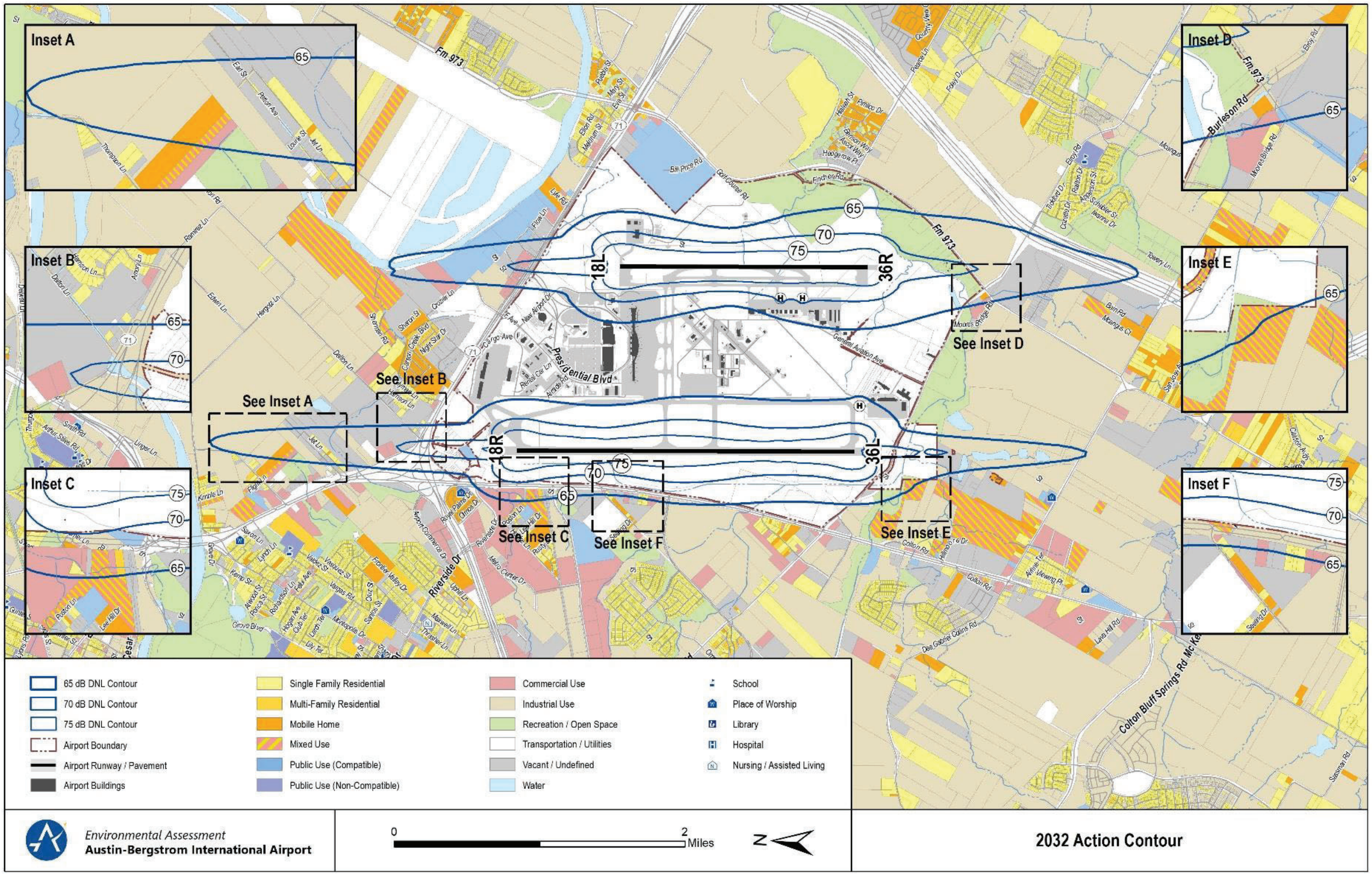


Figure 20. 2032 Proposed Action DNL Contours w/ Inset



4.2 Grid Point Analysis

The focus of the grid point analysis is to compare the No-Action and Proposed Action Alternatives, using FAA's thresholds of significance. **Table 18** defines the significance threshold for changes in noise in accordance with FAA Order 1050.1F. When an action (compared to the No-Action alternative for the same timeframe) would cause noise-sensitive areas to have a DNL greater than or equal to 65 dB and experience a noise increase of at least 1.5 dB, the impact is considered significant. **Table 18** also lists FAA-defined reportable changes of noise levels.

Table 18. FAA Thresholds for Significant or Reportable Changes in Noise

Source: FAA Order 1050.1F Desk Reference, Chapter 11

	65 DNL or Greater	Greater than or equal to 60 DNL but less than 65 DNL	Greater than or equal to 45 DNL but less than 60 DNL
Minimum Change in DNL with Alternative	1.5 dB	3.0 dB	5.0 dB
Level of Impact	Significant	Reportable	Reportable

To identify any regions meeting the FAA criteria for significant or reportable changes in noise because of the Proposed Action, HMMH compared the underlying noise exposure grids that inform the contours. **Figure 21** and **Figure 22**and present the No-Action to Proposed Action contour comparisons again, with grid differences color-coded according to the criteria listed in **Table 18**. There are no grid points with significant impacts between the no-action to proposed action contours in 2027 or 2032.

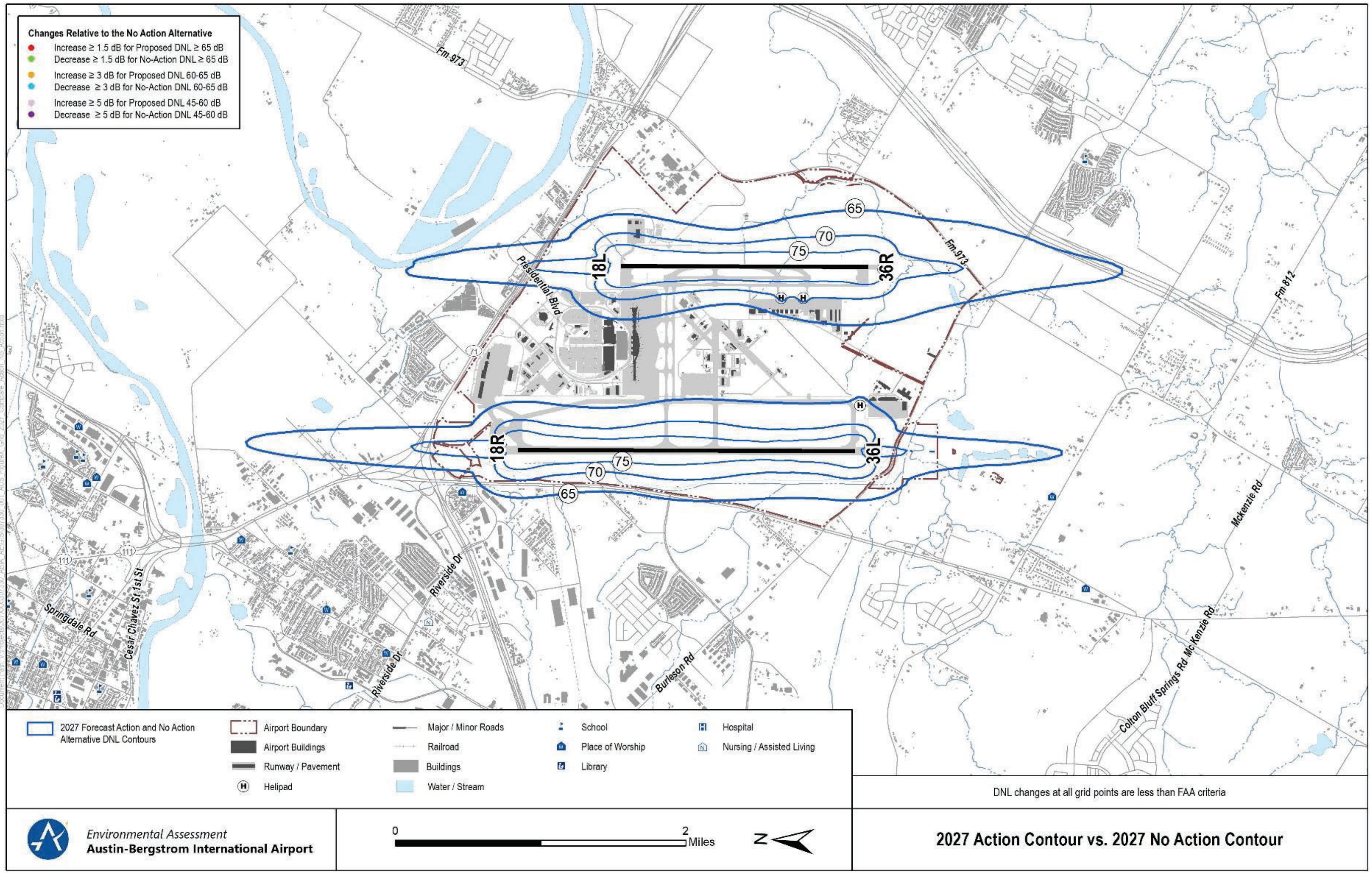


Figure 21. Grid Point Differences Between Proposed Action and No Action for Forecast Year 2027

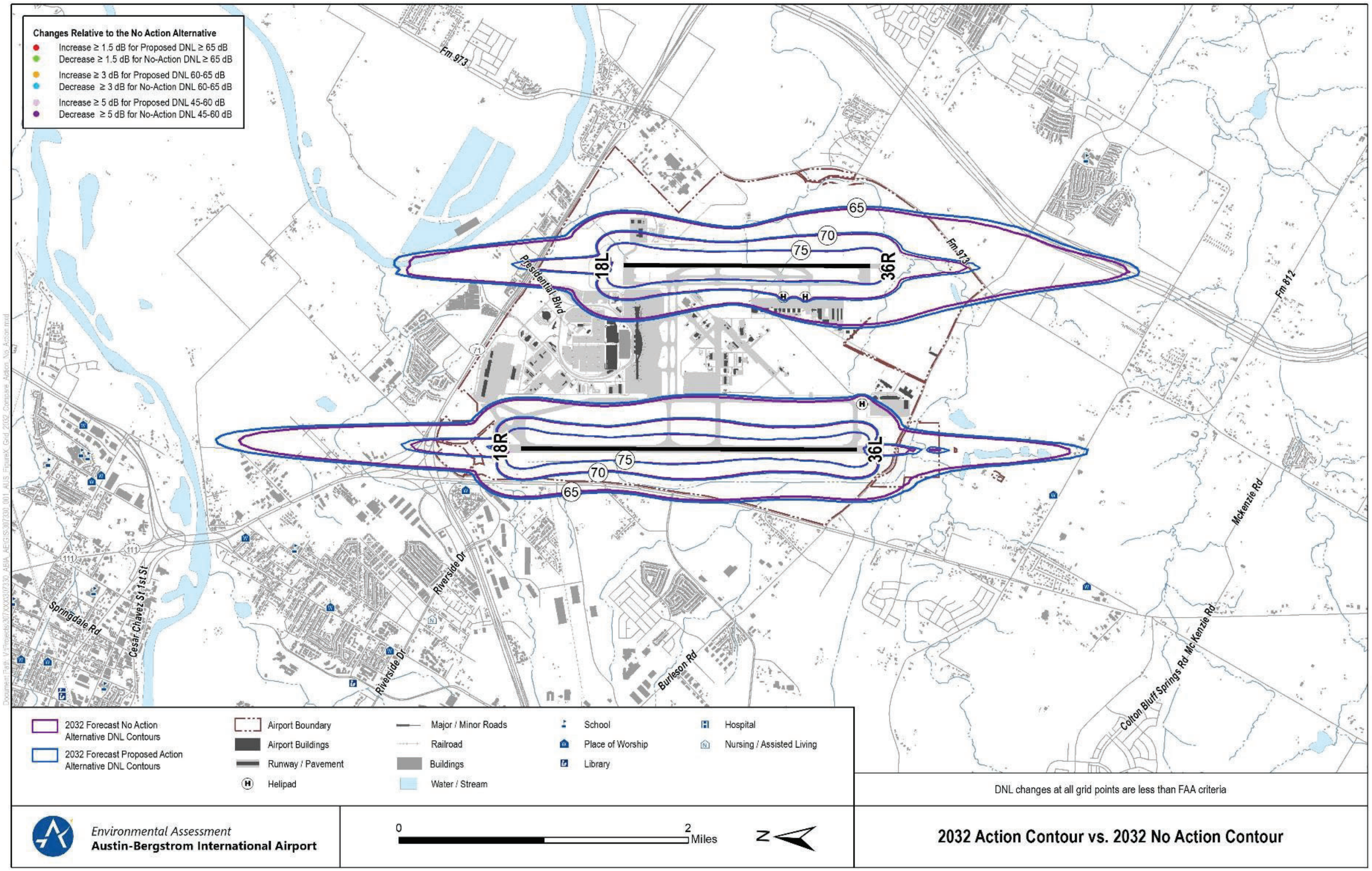


Figure 22. Grid Point Differences Between Proposed Action and No Action for Forecast Year 2032

4.3 Population Inventory

For each of the five sets of DNL contours prepared for this EA, HMMH prepared an inventory of housing units and population[8] in the residential land use areas exposed to 65 dB DNL or higher. In order to estimate the number of people residing within the noise contours, existing parcel boundary land use maps were overlaid on 2020 US Census TIGER file maps that depict the smallest census enumeration unit. "Populated Area" data polygons were then created by combining census blocks with the residential land use, concentrating population and housing unit values into the residential portion of the census block where people actually live. For example, in some areas the population is concentrated along the road rather than over several square miles of open or undeveloped land. Using Geographic Information Systems (GIS) tools, the noise contours were intersected with the residential census data. The resultant wholly or partially encompassed residential census areas were then identified for each DNL contour interval; the proportion of total residential area was calculated to estimate the residential population and housing unit counts ascribed to that DNL interval. **Figure 16** through **Figure 20** show all DNL contour scenarios with insets that show areas of residential land uses that fall within the contours.

Table 19 presents the estimated population, housing, and land area within the given DNL contour intervals. None of the five scenarios would include residential land use at 70 dB DNL or greater. **Table 19** shows a comparison of noise exposure for the modeled scenarios.

A total of 90 residents and 19 housing units would be within the 65+ dB DNL noise contours in 2027, which is an increase of 60 residents and 12 housing units compared to 2019 conditions. The total area of the 65+ DNL noise contours under the 2027 No Action Alternative is 3,083.85 acres, which is an increase of 428.12 acres. No individual noise sensitive locations such as schools or house of worship would be within the 65+ dB DNL noise contours for the 2027 No Action Alternative.

A total of 100 residents and 21 housing units would be within the 65+ dB DNL 2032 No Action noise contours as a result of no action, which is an increase of 10 residents and 2 housing unit compared to the 2027 No Action Alternative. The total area of the 65+ DNL noise contours under the 2032 No Action Alternative is 3,162.81 acres, which is an increase of 78.96 acres compared to the 2027 No Action Alternative. No individual noise sensitive locations such as schools or house of worship would be within the 65+ dB DNL noise contours for the 2027 No Action Alternative.

A total of 126 residents and 30 housing units would be within the 65+ dB DNL noise contours in 2032 as a result of the Proposed Action, which is an increase of 26 residents and 9 housing units compared to the 2032 No Action Alternative. The total area for the 2032 Proposed Action DNL noise contours is 3,434.57 acres, which is 271.76 acres greater than the area for the 2027 No Action Alternative DNL noise contours. As with the 2032 No Action Alternative, no individual noise sensitive locations such as schools or houses of worship lie within the 65+ dB DNL noise contours for the 2032 Proposed Action.

There were no identified non-residential noise sensitive sites or places of worship, in the 65+ dB DNL interval for all five scenarios.

As noted in the introduction to this document, this noise analysis focused exclusively on airport-related noise sources. The Proposed Action is not expected to change non-airport noise sources such as commercial activity, highway traffic, or noise from local roadways. However, ambient noise levels from those sources do contribute to the overall acoustic environment. Residential locations within the aircraft noise 60 DNL or 65 DNL contours that are also in close proximity to busy streets or highways could experience actual DNL values higher than depicted on the contour map.

[8] Population estimates are based on 2020 U. S. census data.

Table 19. Comparison of Noise Exposure

Sources: HMMH analysis, 2022

Noise Exposure Interval	Existing Conditions (2019)	Design Year (2027)			5-Year Forecast (2032)		
		No-Action Alternative	Proposed Action Alternative	increase (or decrease)	No-Action Alternative	Proposed Action Alternative	increase (or decrease)
Population Inventory							
70 DNL or greater	0	0	0	-	0	0	-
65-70 DNL	30	90	90	0	100	126	26
Housing Units Inventory							
70 DNL or greater	0	0	0	-	0	0	-
65-70 DNL	7	19	19	0	21	30	9
Acreage Inventory							
75 DNL or greater	520.21	543.29	543.29	0	555.98	587.21	31.23
70-75 DNL	561.56	654.33	654.33	0	671.62	731.79	60.17
65-70 DNL	1,573.96	1,886.23	1,886.23	0	1,935.21	2,115.57	180.36
total 65 DNL or greater	**2,655.73**	**3,083.85**	**3,083.85**	**0**	**3,162.81**	**3,434.57**	**271.76**
Note: acreage estimation includes airport land							

5. Air Quality Analysis

This section presents and discusses the potential air quality impacts from the Proposed Action associated with (1) the construction and demolition activities of the projects, and (2) additional aircraft and associated auxiliary operations along with other direct and indirect emissions associated with operation of the Proposed Action. For this analysis, the inventory of air pollutant emissions associated with each of those items to the General Conformity *de minimis* thresholds for significance is the basis for evaluating the potential for significant impacts for NEPA compliance with the CAA.

5.1 Affected Environment

5.1.1 National Ambient Air Quality Standards

Under the National Environmental Policy Act (NEPA), federal agencies must consider the impact their actions will have on the environment compared to a no-action alternative. According to FAA NEPA implementing guidance (FAA Order 1050.1F and Desk Reference, and FAA Order 5050.4B), impacts to air quality must be considered as part of the environmental analysis under NEPA. Potential effects of the proposed action are evaluated against the National Ambient Air Quality Standards (NAAQS), as promulgated by the EPA under the Federal Clean Air Act (CAA).

The EPA currently regulates six criteria pollutants: ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter (PM), and lead (Pb). Particulate matter is divided into two particle size categories: coarse particles with a diameter less than 10 micrometers (PM_{10}) and fine particles with a diameter of less than 2.5 micrometers ($PM_{2.5}$). The NAAQS are expressed in terms of pollutant concentration measured (or averaged) over a defined period of time and are two-tiered. The first tier (the "primary standard") is intended to protect public health; the second tier (the "secondary standard") is intended to protect public welfare and prevent further degradation of the environment.

Table 20 shows the primary and secondary NAAQS for the criteria pollutants. Section 176(c) of the CAA states that federal agencies cannot engage, support, or provide financial assistance for licensing, permitting, or approving any project that could cause or contribute to the severity and/or number of violations of the NAAQS, or could inhibit the expeditious attainment of these standards.

The standards in **Table 20** apply to the concentration of a pollutant in outdoor ambient air. If the air quality in a geographic area is equal to or better than the national standard, the EPA will typically designate the region as an "attainment area." An area where air quality does not meet the national standard is typically designated by the EPA as a "non-attainment area." Once the air quality in a non-attainment area improves to the point where it meets the standards and the additional requirements outlined in the CAA, the EPA can re-designate the area to attainment upon approval of a Maintenance Plan, and these areas are then referred to as "maintenance areas." Each state is required to prepare a State Implementation Plan (SIP) that outlines measures that regions within the state will implement to attain the applicable air quality standard in non-attainment areas for applicable criteria air pollutant, and to maintain compliance with the applicable air quality standard in maintenance areas. The status and severity of pollutant concentrations in a particular area will impact the types of measures a state must take to reach attainment with the NAAQS. The EPA must review and approve each state's SIP to ensure the proposed measures are sufficient to either attain or maintain compliance with the NAAQS within a set period of time.

The Clean Air Act Amendments (CAAA) of 1990 require states to make recommendations to the EPA regarding the attainment status of all areas within their borders when the EPA finalizes an update to any NAAQS. Under its CAAA authority, the EPA further classifies non-attainment areas for some pollutants – such as ozone – based on the severity of the NAAQS violation as marginal, moderate, serious, severe, and extreme. To further improve the nation's air quality, the EPA lowered the ozone standard in 2015 to 0.070 parts per million (ppm).

Table 20. National Ambient Air Quality Standards

Source: U.S. EPA NAAQS https://www.epa.gov/criteria-air-pollutants/naaqs-table as accessed on January, 2022

Pollutant	Averaging Time	Primary Standards	Secondary Standards
CO	Eight-hour	9 parts per million (ppm)	None
	One-hour	35 ppm	
Pb	Rolling Three-Month Average	0.15 micrograms (µg) /cubic meter of air (m^3)	Same as Primary
NO_2	Annual Arithmetic Mean	0.053 ppm (100 µg/m^3)	Same as Primary
	One-hour	0.100 ppm [Note 2]	None
O_3	Eight-hour (2015 standard)[Note 4]	0.070 ppm	Same as Primary
$PM_{2.5}$	Annual Arithmetic Mean	12 µg/m^3 [Note 1]	15 µg/m^3
	24-hour	35 µg/m^3	Same as Primary
PM_{10}	24-Hour	150 µg/m^3 [Note 1]	Same as Primary
SO_2	One-hour	75 parts per billion (ppb) [Note 3]	None
	Three-hour	None	0.5 ppm

Table Notes:

1. For PM_{10}, the 24-hour standard not to be exceeded more than once per year on average over three years. For $PM_{2.5}$, the 24-hour standard is attained when 98% of the daily concentrations, averaged over three years, are equal to or are less than the standard.

2. To attain this standard, the three-year average of the 98th percentile of the daily maximum one-hour average at each monitor within an area must not exceed 0.100 ppm (effective January 22, 2010).

3. Final rule signed June 2, 2010. To attain this standard, the three-year average of the 99th percentile of the daily maximum one-hour average at each monitor within an area must not exceed 75 ppb.

4. EPA updated the NAAQS for O_3 to strengthen the primary eight-hour standard to 0.07 ppm on October 1, 2015. An area will meet the standard if the fourth-highest maximum daily eight-hour ozone concentration per year, averaged over three years is equal to or less than 70 ppb.

5.1.2 Attainment Status

Air quality in the Austin area (i.e., Travis County) is designated by EPA Greenbook as being in attainment for all criteria pollutants[9]. Since the area is designated as attainment with the current EPA air quality standards, the General Conformity Rule does not apply. Under NEPA, a project's impact on air quality is assessed by evaluating whether it would cause a new violation of a NAAQS or contribute to a new violation in a manner that would increase the frequency or severity of a new violation[10] For this analysis, the net change in air emissions was still compared to the applicable U.S. EPA *de minimis* levels for determining significant impacts[11] under NEPA.

5.1.3 General Conformity Rule

The General Conformity Rule defines a federal action as any activity engaged in by a department, agency, or instrumentality of the federal government, or any activity that a department, agency, or instrumentality of the federal government supports in any way, provides financial assistance for, licenses, permits, or approves. General Conformity is defined as demonstrating that a project or action conforms to the SIP's purpose of eliminating or reducing the severity and number of violations of the NAAQS and achieving expeditious attainment of such standards. Federally funded and approved actions at airports are subject to the U.S. EPA's

[9] https://www3.epa.gov/airquality/greenbook/anayo_tx.html
[10] https://www.faa.gov/sites/faa.gov/files/about/office_org/headquarters_offices/apl/1-air-quality.pdf
[11] emissions below the *de minimis* levels are considered not significant

general conformity regulations. The General Conformity Rule[12] applies to all federal actions except for certain highway and transit programs which must comply with the Transportation Conformity Plans.[13]

The General Conformity Rule includes annual emissions thresholds for nonattainment and maintenance areas that trigger the need for a General Conformity determination and defines projects that are typically excluded from General Conformity requirements. Since the General Conformity Rule applies to federally funded projects in EPA-designated non-attainment and maintenance areas, the General Conformity requirements *do not* apply to projects at Austin[14].

5.2 Environmental Consequences of Proposed Action

Potential air quality impacts associated with construction and demolition of the Proposed Action are discussed in this section. After construction, the Proposed Action would induce additional aircraft operations compared to the No Build which as well as additional passenger trips, parking facilities and new Central Utility Plant. Therefore, both direct (i.e. additional aircraft operation emissions and combustion boiler emissions) and indirect (i.e. additional vehicle trips and parking structure) were also inventoried and evaluated.

5.2.1 Methodology

The methods used to calculate emissions of carbon monoxide (CO), volatile organic compounds (VOCs), oxides of nitrogen (NOX), sulfur oxides (SOX), particulate matter less than 10 microns (PM10), greenhouse gases (GHG) and fine particulate matter (PM2.5) from construction and demolition-related sources along with operational impacts of air pollutant emissions at AUS are documented in this section. The emissions analysis was conducted to develop emissions inventories pursuant to the National Environmental Policy Act of 1969 (NEPA), as well as to determine whether emissions associated with the Proposed Action would exceed applicable *de minimis* thresholds as documented in the U.S. Environmental Protection Agency's (EPA's) general conformity regulations to determine significance.

Estimates of construction and demolition-related emissions were developed for the Proposed Action using standard industry methodologies and techniques. Construction activities associated with the Proposed Action are anticipated to begin in 2022 and be completed in 2030.

Airport operational emissions inventories were developed for the existing (2019), future years (2027 and 2032) for those activities associated with the Proposed Action where additional emission are expected over the No Build. Both direct and indirect operational emissions were inventoried and compared to appropriate *de minimis* thresholds for determining significant impacts.

5.2.2 Construction Demolition and Construction Activities

Pollutant emissions resulting from construction and demolition activities associated with Proposed Action were estimated using standard industry methodologies and techniques. Construction and demolition emissions were not estimated for the No Action Alternative, because no demolition or construction activity would be associated with the No Action Alternative.

The demolition and construction associated with the Proposed Action would result in short-term changes in air emissions from sources such as exhaust from nonroad construction equipment such as:

haul trucks,

site clearing, and

grading.

On-road vehicles include those associated with:

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[12] Revisions to the General Conformity Rule are codified under 40 CFR Parts 51 and 93, Subpart W, Revisions to the General Conformity Regulations, Final Rule (April 2010).

[13] 40 CFR Part 93, Subpart A

[14] Austin is located in an EPA designated attainment area for all pollutants

transport and delivery of supplies,

materials and equipment to and from the site, and

construction worker trips.

Additionally, fugitive dust emissions sources include:

site preparation,

land clearing,

material handling,

equipment movement on unpaved roads and

evaporative emissions from the application of asphalt paving.

Demolition and construction activities associated with the Proposed Action are expected to begin in the fourth quarter of 2022 and be completed in the second quarter of 2030. **Table 21** presents the primary components of the Proposed Action, including estimated activity costs, area estimates (square feet) and anticipated start and end dates of construction. These costs and area estimates were used for deriving construction activity emission estimates with the Airport Cooperative Research Board's (ACRP) Airport Construction Emissions Inventory Tool (ACEIT)[15]. Construction emission analyses generally require a detail construction schedule such as the type of equipment, the amount of time of operation of such equipment, estimates of construction material and trips, employee activity, etc. This detailed construction data was not available for this analysis for each activity. To address this, the ACRP ACEIT model was used to estimate construction emissions.

Table 21. Proposed Action Construction and Demolition Activities

Source: AUS, December 2021

Project Action Component	Estimated Project Costs ($)	Area (Square Feet)	Construction Start	Construction End
New Taxiway H and J	113.6M	890,300	2024: QTR 1	2026: QTR 2
New RON Apron	15.0M	1,789,000	2024: QTR 1	2026: QTR 2
Concourse B Apron	85.0M	1,943,000	2024: QTR 1	2026: QTR 2
Concourse B Taxiway Connections	28.5M	652,000	2024: QTR 1	2026: QTR 2
Runway 18R-36L Rapid Exit Taxiways	20.7M	400,500	2026: QTR 3	2028: QTR 3
New Taxiway D	73.0M	1,410,200	2026: QTR 3	2028: QTR 3
Demolition of Airfield Pavement	28.4M	464,000	2026: QTR 3	2028: QTR 3
New Airfield Pavement	19.9M	385,000	2026: QTR 3	2028: QTR 3
New Concourse B and Loading Bridges	423.7M	342,000	2023: QTR 3	2026: QTR 2
Connector to Concourse B	444.0M	52,000	2024: QTR 2	2025: QTR 4
New Expanded Arrival Departure Hall	423.7M	342,000	2027: QTR 3	2030: QTR 2
Pedestrian Bridge to CONRAC Parking	3.2M	36,000	2029: QTR 3	2030: QTR 2
Demolition of South Buildings	0.7M	406,000	2022: QTR 4	2023: QTR 2
Demolition of Existing Parking Garage	105.9M	414,000	2024: QTR 1	2024: QTR 3
Demolition of Existing Terminal	5.0M	46,000	2022: QTR 4	2023: QTR 2
Demolition of Existing Roadway	8.0M	190,000	2025: QTR 2	2026: QTR 2
Upgrade Existing Access Roadway Network	9.0M	173,000	2025: QTR 2	2027: QTR 3

[15] ACRP, 2014 https://crp.trb.org/acrp0267/acrp-report-102-guidance-for-estimating-airport-construction-emissions/

New Terminal Curbside Roadway	209.9M	177,000	2028: QTR 2	2030: QTR 2
New Emma Browning Road	15.0M	106,000	2023: QTR 1	2025: QTR 1
New Employee Parking Lot	24.6M	1,225,000	2025: QTR 1	2026: QTR 2
New Hydrant Fueling System	3.0M	10 new tanks	2025: QTR 2	2026: QTR 1
New Catering Facility	20.0M	25,500	2025: QTR 2	2026: QTR 1
New Central Utility Plant	65.0M	72,000	2024: QTR 2	2026: QTR 1
Site Infrastructure	200M	-	2024: QTR 3	2025: QTR 4
West Concourse Gate Expansion	85.2M	33,000	2022: QTR 2	2024: QTR 2

The ACRP ACEIT model was used to estimate the construction schedule of equipment for each project component based on the project dimensions and project costs for each activity. The model has the ability to generate construction schedules for a variety of standard airport construction projects including the associated activity types and the equipment used for this project.

ACEIT can also produce emission factors for nonroad and on-road construction equipment, as well as for fugitive emission sources using EPA and industry standard models and methodologies. *However, the current version of ACEIT includes an older version of the U.S EPA's Motor Vehicle Emission Simulator (MOVES) emission model, MOVES2010a and NONROADs, which have both been updated over the years*. For this analysis, the current version of MOVES (Version MOVES3.0.2) which includes the latest version of the NONROAD model was used to develop on-road and nonroad emission factors. These emission factors were applied to estimates of vehicle miles traveled (VMT) and construction equipment (hours, horsepower, load factor), respectively, as generated in ACEIT for each construction activity and year. Emission factors generated in NONROAD assume the phasing of Tier 1, Tier 2, Tier 3, and Tier 4 engines over time based on EPA regulations[16]. ACEIT and MOVE3 calculations for construction and demolition are presented in **Appendix A**.

Off-Road Construction Equipment

Off-road equipment emission factors for each construction year were estimated using the EPA NONROADs within MOVES3 representative of equipment used in Travis County[17] for both criteria pollutants/precursors and greenhouse gases. Emission factors in grams per horsepower (hp-hr) for each off-road equipment type were applied to the equipment size (in hp), load factor, and anticipated activity levels (in hours per year) of expected equipment use as generated in in the construction equipment inventory by ACEIT. The annual emissions for off-road construction equipment were computed using the following equation:

Off-road Vehicle Construction emissions (tons per year) = emission factor (grams per hp-hr) x size (hp) x load factor x hours per year x (1 pound/453.6 grams) x (1 ton /2000 pounds)

On-Road Construction Passenger/Truck Delivery Vehicles

Vehicle miles traveled (VMT) data for each on-road employee trip and truck delivery vehicles were derived from round trip distances and the number of employee hours from the activity specific construction schedule. It is assumed that all on-road equipment will use gasoline for passenger vehicles and diesel fuel for truck deliveries. Emission factors in grams per mile (g/mile) for each on-road vehicle type were applied to the anticipated VMT. Similar to the offroad equipment, the MOVES3 model vehicle data representative of vehicles used in Travis County for both criteria pollutants/precursors and greenhouse gases was used to estimate emissions factors in grams per mile.

[16] Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES2014b (PDF) (177 pp, 15.4 MB, EPA-420-R-18-009, July 2018)
[17] Construction emissions used in MOVES3 assumed a blend of Tier 1, Tier 2, Tier 3, and Tier 4 for Davidson County based on EPA phasing ratios of older equipment in future years and does not reflect the primary use of either Tier 1 thru 4 engines. MOVES emission factors are specific to Travis County as generated within MOVES for each year.

The annual emissions for on-road construction equipment and passenger/delivery vehicles were computed for each year using the following equation:

On-road construction vehicles emissions (tons per year) = emission factor (g/mile) x annual vehicle miles traveled (VMT) x (1 pound/453.6 grams) x (1 ton/2000 pounds)

Fugitive Dust Emissions

Fugitive dust emissions from site preparation, land clearing, equipment movement on unpaved areas, material handling, along with evaporative emissions from asphalt paving activities, were calculated using EPA emission factors and included in the total construction emissions. ACEIT default assumptions were used for each activity to estimate fugitive PM and VOC emissions.

5.2.3 Summary of Construction-Related Emissions

Construction-related emissions of criteria pollutants during the construction period 2022 to 2030 under the Proposed Action are summarized in **Table 22.** For this analysis, GHG emissions associated with the Proposed Action were prepared for disclosure purposes as carbon dioxide equivalent (CO_{2E}) in metric tons per year relevant to their global warming potential.[18]

Table 22. Construction Emission Inventory - Proposed Action

Source: HMMH, 2022, Based on ACEIT, MOVES3.0.2 results using construction information provided by AUS, December 2021

Year	Relevant Criteria Pollutant Emissions (tons per year)						
	CO	VOC Note 1	NO_2 Note 1	SO_2	PM_{10}	$PM_{2.5}$	CO_2e Note 2
2022	8.1	0.4	3.5	0.015	0.28	0.23	4,613
2023	31.7	2.1	11.4	0.060	1.17	0.83	17,907
2024	57.9	2.8	17.7	0.132	3.17	1.20	32,940
2025	55.4	2.5	9.8	0.114	3.75	0.51	20,702
2026	35.5	0.9	4.2	0.058	1.57	0.22	8,654
2027	20.8	0.8	2.4	0.039	1.12	0.12	7,061
2028	28.7	0.9	1.9	0.038	0.79	0.09	6,955
2029	22.7	0.6	1.2	0.022	0.28	0.05	4,051
2030	7.2	0.2	0.7	0.009	0.15	0.03	1,870

Notes:
1. Following standard industry practice, ozone was evaluated by evaluating emissions of VOC and NO_x, which are precursors in the formation of ozone.
2. CO_2e emissions are in metric tons per year equivalent relevant to their GWP.

5.2.4 Direct and Indirect Operational Emissions

Both direct and indirect operational emissions were evaluated for the Proposed Action. Direct emissions included additional aircraft operational activities and new Central Utility Plant combustion emissions, while indirect emissions included emissions associated with ground access vehicles and parking trips associated with the Proposed Action. Operational emissions were estimated for the Proposed Action for 2027 and 2032 and the net change in emissions from the Proposed Action compared to the No Action were compared to the EPA *de minimis* thresholds for significance.

[18] Global warming potentials are based on the latest Intergovernmental Panel on Climate Change (IPCC), *Fifth Assessment Report (AR5),* November 2014.

5.2.5 Aircraft Operational Activities

As discussed above, implementation of the Proposed Action would increase the number of aircraft operations and related equipment compared to the No Action alternatives, therefore aircraft operational emissions were estimated for the 2027 and 2032 for each Alternative. It should be noted that for 2027, the Proposed Action are similar and due to the No Action ground loading operations and being able to meet the TAF. The AEDT emission estimates for both the No Action and the Proposed Action cases were estimated for 2027 and 2032 using the same set of model inputs and forecast operations that were used for the noise calculations, as documented in the noise section of this memorandum. More specific, the 2032 No Action includes constrained forecast operations and AEDT default taxi times, AEDT default GSE equipment and AEDT default APU times (26 minutes). The 2032 Proposed Action assumes unconstrained forecast operations, slight changes in taxi times between the No Build and Build Action and default GSE equipment and default APU times (26 minutes). The aircraft operational emissions include emissions from the ground support equipment and auxiliary power units associated with the Proposed Action and No Action. Aircraft operations estimated for this analysis includes emissions below the default 3,000 mixing height and include:

- Start up
- Taxi Out
- Climb below the mixing height
- Descend below the mixing height
- Taxi In
- Ground Service Equipment (GSE) landing and take off (LTO); and
- Auxiliary Power Units (APU)

Table 23 provides the existing 2019 and the forecast No Action and Proposed Action operational emissions for 2027 and 2032 as calculated by the AEDT. The net change in emissions is provided in bold.

Table 23. Operational Emissions Inventory of the Forecast No Action and Proposed Action Cases

Source: HMMH, 2022

Aircraft Operations Case	Relevant Criteria Pollutant Emissions (tons per year) Note 2					
	CO	VOC Note 1	NO_2 Note 1	SO_2	PM_{10}	$PM_{2.5}$
2019 Existing	965.1	145.373.5	732.2	67.7	11.0	10.9
2027 No Action	1,056.9	159.6	915.1	84.2	13.1	13.0
2027 Proposed Action	1,056.9	159.6	915.1	84.2	13.1	13.0
2027 Net Change (Proposed Action – No Action)	**0**	**0**	**0**	**0**	**0**	**0**
2032 No Action Note 4	1,097.7	166.6	956.3	87.6	13.4	13.4
2032 Proposed Action	1,184.4	178.1	1,062.2	96.7	14.8	14.7
2032 Net Change (Proposed Action – No Action)	**+86.6**	**+11.5**	**+105.9**	**+9.1**	**+1.4**	**+1.4**

Notes:
1. Following standard industry practice, ozone was evaluated by evaluating emissions of VOC and NO_x, which are precursors in the formation of ozone.
2. Operational emissions denote emissions associated with aircraft operations only.
3. The Proposed Action for 2032 assumed unconstrained operations, adjusted taxi times from the AEDT default to reflect a more realistic scenario based on forecast operations along with default GSE and APU operation.
4.The Proposed No Action for 2032 assumes constrained operations, default taxi times, default GSE and default APU.

5.2.6 New Central Utility Plant Operations

The existing Central Utility Plant (CUP) will be phased out of service as the proposed projects come online. The existing CUP has two 12.25 million British thermal units (BTU) boilers that service the existing Barbara Jordon Terminal which is approximately 1,000,000 square feet. The Proposed Action will add an additional 1,500,000 square feet (sq ft) of conditioned space to be served by the future projects. The future CUP will operate five natural gas fired 12.25 million BTU to support 2,500,000 square feet of conditioned space initially. The new boilers are expected to come on-line in 2027 or soon thereafter, therefore, net change in operational emissions for 2027 was carried forward and would be representative of the net changes for the opening 2032 year to determine the total net emission change from the Proposed Action once all the projects are completed. Boiler emissions were estimated based on annual and estimated fuel usage and permitted emission factors for each boiler and are presented in **Appendix A**. The net change in operational boiler emissions are presented in bold below in

***Table 24*.**

Table 24. Operational Emissions Inventory of the Central Utility Plant

Source: AUS, January 2022

Boiler Utility Operations Case	Relevant Criteria Pollutant Emissions (tons per year) Note 2					
	CO	VOC Note 1	NO_2 Note 1	SO_2	PM_{10}	$PM_{2.5}$
2027 No Action	0.8208	0.0537	0.4886	.0059	0.0743	0.0743

Boiler Utility Operations Case	Relevant Criteria Pollutant Emissions (tons per year)[Note 2]					
	CO	VOC[Note 1]	NO_2[Note 1]	SO_2	PM_{10}	$PM_{2.5}$
2027 Proposed Action	2.0521	0.1344	1.2215	0.0147	.1857	.1857
2027 Net Change in Boiler Operational Emissions (No Action-Proposed Action)	**+1.23**	**+0.08**	**+0.73**	**+0.009**	**+0.11**	**+0.11**
2032 No Action	0.8208	0.0537	0.4886	.0059	0.0743	0.0743
2032 Proposed Action	2.0521	0.1344	1.2215	0.0147	.1857	.1857
2032 Net Change in Boiler Operational Emissions	**+1.23**	**+0.08**	**+0.73**	**+0.009**	**+0.11**	**+0.11**

Notes:

1. Following standard industry practice, ozone was evaluated by evaluating emissions of VOC and NO_x, which are precursors in the formation of ozone.
2. CUP Operational emissions denote emissions associated with the existing and new boilers.

The new boilers will require an air quality permit with the Texas Commission on Environmental Quality (TCEQ) under the Permits by Rule (PBR) 106.4 in order to construct and operate the boilers.

5.2.7 Additional Ground Access Vehicles and Parking Areas

The Proposed Action will generate additional aircraft operations which will also result in an increase in passengers and vehicle trips to the airport above the No Action alternative. The additional vehicle trips accessing the airport are expected to occur after implementation of the Projects (i.e. after 2030), therefore additional vehicle trips above the No Action were estimated for the 2032 conditions and included both moving and idling emissions as they enter and leave the airport. In addition to vehicle trips from passengers, vehicle emissions associated with the new parking facilities were also estimated.

Vehicle miles traveled were estimated for the roadway network based on the roadway segment and expected passenger daily trips along each link for the 2032 conditions entering and leaving the airport from Route 71 along Presidential Boulevard. The MOVES3 emission model was used to estimate pollutant specific emission factors for each segment based on expected vehicle speeds of 30 miles per hour and average idling time of 5 minutes per hour for each vehicle. The net change (i.e. Proposed Action minus the No Action) in emissions were estimated for the ground access vehicles accessing the airport, therefore emissions associated with the additional traffic were estimated for 2032 while the 2032 No Action assumes no change to the existing traffic.

The Proposed Action Alternative also includes emissions associated with vehicles using the new parking area which is not expected to fully come on-line until sometime between 2027 and 2030. Emissions for the new parking area were estimated for 2032 using MOVES3 emissions factors while the 2032 No Action assumes no change to the existing parking facilities. Similar to the GAV, only the net change in vehicle emissions were estimated for the new parking area for 2032 while the 2032 No Action assumes no change to the existing parking. **Appendix A** includes the emission calculations for the GAV and new parking areas.

The new parking area will total approximately 3,150 additional spaces and will initially be utilized for construction activities and transition to employee surface parking by 2030. **Table 25** and **Table 26** summarizes the operational emissions along the roadways and from the parking garages, respectively, under the No Action and Proposed Action Alternative for 2032.

Table 25. Operational Emissions Inventory of the Additional Ground Access Vehicles

Source; HMMH and AUS, 2022

Ground Access Vehicles	Relevant Criteria Pollutant Emissions (tons per year)[Note 2]					
	CO	VOC[Note 1]	NO_2[Note 1]	SO_2	PM_{10}	$PM_{2.5}$
2032 No Action	**N/C**	N/C	N/C	N/C	N/C	N/C
2032 Proposed Action[Note3]	**8.17**	**0.04**	**0.04**	**0.006**	**0.005**	**0.005**
2032 Net Change (Proposed Action – No Action)	**+8.17**	**+0.04**	**+0.04**	**+0.006**	**+0.005**	**+0.005**

Notes:
1. Following standard industry practice, ozone was evaluated by evaluating emissions of VOC and NO_x, which are precursors in the formation of ozone.
2. Operational emissions denote emissions associated with additional ground vehicles passenger trips generated by the Proposed Action compared to the No Action. N/C denotes d No Action remains unchanged.
3. Proposed Action emissions represent additional ground access vehicle trips compared to the No Action.

Table 26. Operational Emissions Inventory of the Additional Parking Areas

Source; HMMH and AUS, 2022

Parking Area Case	Relevant Criteria Pollutant Emissions (tons per year)[Note 2]					
	CO	VOC[Note 1]	NO_2[Note 1]	SO_2	PM_{10}	$PM_{2.5}$
2032 No Action	**N/C**	N/C	N/C	N/C	N/C	N/C
2032 Proposed Action [Note3]	**2.66**	**0.011**	**0.012**	**0.002**	**0.002**	**0.001**
2032 Net Change (Proposed Action – No Action)	**+2.66**	**+0.011**	**+0.012**	**+0.002**	**+0.002**	**+0.001**

Notes:
1. Following standard industry practice, ozone was evaluated by evaluating emissions of VOC and NO_x, which are precursors in the formation of ozone.
2. Operational emissions denote emissions associated with vehicles utilizing the new parking areas by the Proposed Action compared to the No Action. N/C denotes d No Action remains unchanged.
3. Proposed Action emissions represent additional vehicle associated with the new parking areas compared to the No Action.

5.2.8 Significance Thresholds

Austin Bergstrom International Airport is located in Travis County, which is designated as attainment with the NAAQS by EPA for all criteria pollutants, therefore the General Conformity Rule does not apply. However, the emissions associated with the Proposed Action for both Construction and Operations are compared to the General Conformity *de minimis* levels for attainment/maintenance areas for determining significant impacts[19].

Table 27 presents the total emissions associated with demolition and construction of the Proposed Action for each year of the construction period (2022 through 2030) compared with the appropriate *de minimis* thresholds. As the table shows, the total emissions for each construction year would be below established *de minimis* thresholds for all pollutants and would not result in a significant air quality impact. It should be noted that the CUP facility will come on-line in 2027 and therefore the CUP emissions were included in the 2027 construction and demolition emissions in **Table 27** for comparison to *de minimis* threshold.

[19] emissions below the *de minimis* levels are considered not significant and have minimal emissions increase

Table 27. Total Construction and Demolition Emissions Compared to De Minimis Thresholds

Source: HMMH, 2021

Year	***Relevant Criteria Pollutant Emissions (tons per year)***					
	CO	***VOC***	***NO_2***	***SO_2***	***PM_{10}***	***$PM_{2.5}$***
2022						
Total Emissions of Construction and Demolition	8.1	0.4	3.5	0.015	0.28	0.23
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***
2023						
Total Emissions of Construction and Demolition	31.7	2.1	11.4	0.060	1.17	0.83
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***
2024						
Total Emissions of Construction and Demolition	57.9	2.8	17.7	0.132	3.17	1.20
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***
2025						
Total Emissions of Construction and Demolition	55.4	2.5	9.8	0.114	3.75	0.51
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***
2026						
Total Emissions of Construction and Demolition	35.5	0.9	4.2	0.058	1.57	0.22
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***
2027 [1]						
Total Emissions of Construction and Demolition and Boiler Operations	22.0	0.9	3.1	0.048	1.23	0.23
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***
2028						
Total Emissions of Construction and Demolition	28.7	0.9	1.9	0.038	0.79	0.09
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***
2029						
Total Emissions of Construction and Demolition	22.7	0.6	1.2	0.022	0.28	0.05
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***

Year	Relevant Criteria Pollutant Emissions (tons per year)					
	CO	VOC	NO_2	SO_2	PM_{10}	$PM_{2.5}$
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***
2030						
Total Emissions of Construction and Demolition	7.2	0.2	0.67	0.009	0.15	0.03
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***

Notes: 1. 2027 emissions includes both construction/demolition and the CUP emissions which will be on-line that year for comparison to de minimis thresholds

Table 28 presents the net change in operational emissions (aircraft, new boilers, ground access vehicles, and new parking facilities) from the implementation of the Proposed Action compared to the No Action and compares those emissions changes to the appropriate *de minimis* thresholds for significance determination for 2027 and 2032. It should be noted that the net operational emissions for 2027 also includes the construction/demolition emissions for 2027 which will be occurring when the new CUP boilers come on-line. As the table shows, the net change would be below established *de minimis* thresholds for all pollutants for 2027 and 2032 except NOx for 2032 which is slightly above the *de minimis* threshold of 100 tpy (at 106.7 tpy) of which the aviation net operational emissions constitute 105.9 tpy of the total.   It should be noted that the aircraft operations assumptions used in AEDT for the Proposed Action are conservative and do not include PCA or ground power, revised taxi times, and other low emission projects that will be undertaken at the airport to reduce fossil fuel usage and reduce air emissions. As discussed above, since the airport is located in an EPA designated attainment area for all pollutants, General Conformity does not apply. It should also be noted that the airport measures were included in the Austin Eight-Hour O3 Flex plan that was developed approximately 10 years ago and is listed on the TCEQ website. This is voluntary initiative for the Austin MSA and includes the airport.2021   Furthermore, 106 ton per year net emission increase is a fraction of the 2016 Travis County NOx emissions were estimate of 13,048 tons per year assuming conservative assumptions as stated above.

Table *28. Net Operational Emission Changes Compared to De Minimis Thresholds*

Source: HMMH, 2022

Year	Relevant Criteria Pollutant Emissions (tons per year)					
	CO	VOC	NO_2	SO_2	PM_{10}	$PM_{2.5}$
2027 Net Change in Aircraft Operational Emissions of the Proposed Action	No Change	No Change	No Change	No Change	No Change	No Change
Net Change in New Utility Boiler Emissions	+1.23	+0.08	+0.73	+0.009	+0.11	+0.11
Construction and Demolition	**20.8**	**0.8**	**2.4**	**0.039**	**1.12**	**0.12**
Total Aircraft, CUP, and Construction/demolition Net Emissions (TPY)[1]	**+22.0**	**+0.88**	**+3.13**	**+0.048**	**+1.23**	**+0.23**
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below* de minimis *thresholds?	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***	***Yes***

[20] Austin-Round Rock: Latest Ozone Planning Activities - Texas Commission on Environmental Quality - www.tceq.texas.gov

[21] Austin-Round Rock and the State Implementation Plan - Texas Commission on Environmental Quality - www.tceq.texas.gov

Year	Relevant Criteria Pollutant Emissions (tons per year)					
	CO	VOC	NO_2	SO_2	PM_{10}	$PM_{2.5}$
2032 Net Change in Aircraft Operational Emissions of the Proposed Action	+86.7	+11.5	+105.9	+9.1	+1.4	+1.4
Net Change in New Utility Boiler Emissions	+1.23	+0.08	+0.73	+0.009	+0.11	+0.11
Net Change in Ground Access Vehicle Emissions	+8.20	+0.04	+0.04	+0.006	+0.005	+0.005
Net Change in Parking Area Emissions	+2.66	+0.011	+0.012	+0.002	+0.002	+0.001
Total Aircraft and Utility Boiler Net Emissions (TPY)	**+98.9**	**+11.6-**	**+106.7**	**+9.1**	**+1.5**	**+1.5**
EPA De Minimis Threshold	***100***	***100***	***100***	***100***	***100***	***100***
Emissions below de minimis thresholds?	**Yes**	**Yes**	**No**	**Yes**	**Yes**	**Yes**

Notes: 1. 2027 emissions includes operational emissions and construction/demolition activity emissions for 2027 for comparison to the de minimis thresholds.

5.2.9 No Action Alternative

The No-Action Alternative assumes that the proposed action is not implemented, and air quality would remain unchanged for 2027 and 2032. Therefore, no additional air quality impacts would occur as a result of the No-Action case.

5.2.10 Mitigation

As indicated above, impacts to air quality with the implementation of the Proposed Action would not be significant for most pollutants except NOx (which is slightly above 100 tpy), when compared to the No Action. AUS is committed to mitigation measures that were not included in the analysis which will further reduce emissions for 2032. These measures will be further developed by AUS.

5.3 Climate

Climate change is a global phenomenon that can have local impacts.[22] Scientific measurements show that Earth's climate is warming, with concurrent impacts including warmer air temperatures, increased sea level rise, increased storm activity, and an increased intensity in precipitation events. Increasing concentrations of greenhouse gas (GHG) emissions in the atmosphere affect global climate.[23,24,] GHG emissions result from anthropogenic sources, including the combustion of fossil fuels. GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), ozone (O_3), and fluorinated gases.[25] CO_2 is the most important anthropogenic GHG because it is a long-lived gas that remains in the atmosphere for up to 100 years.

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[22] As explained by the EPA, "greenhouse gases, once emitted, become well mixed in the atmosphere, meaning U.S. emissions can affect not only the U.S. population and environment but other regions of the world as well; likewise, emissions in other countries can affect the United States." U.S. Environmental Protection Agency, Climate Change Division, Office of Atmospheric Programs, *Technical Support Document for Endangerment and Cause or Contribute Findings for Greenhouse Gases under Section 202(a) of the Clean Air Act 2-3*, 2009, https://www.epa.gov/ghgemissions/technical-support-document-endangerment-and-cause-or-contribute-findings-greenhouse (accessed September 28, 2018).

[23] Intergovernmental Panel on Climate Change, *Fifth Assessment Report*, 2014, https://www.ipcc.ch/report/ar5/syr/ 9 (accessed September 28, 2018).

[24] U.S. Global Change Research Program, *Global Climate Change Impacts in the United States*, 2009, http://www.globalchange.gov/what-we-do/assessment/previous-assessments/global-climate-change-impacts-in-the-us-2009 (accessed September 28, 2018).

[25] U.S. Environmental Protection Agency, Overview of Greenhouse Gases, http://www3.epa.gov/climatechange/ghgemissions/gases.html (accessed February 10, 2022).

5.3.1 Regulatory Framework

The impact of proposed projects on climate change is a growing concern. Greenhouse gases (GHGs) are those that trap heat in the earth's atmosphere; these include water (H2O) vapor, carbon dioxide (CO2), methane (CH4), nitrous oxide (N2O), and O3. Research has shown that there is a direct link between fuel combustion and GHG emissions. Therefore, sources that require fuel or power at an airport are the primary sources that would generate GHGs. Aircraft are probably the most often cited air pollutant source, but they produce the same types of emissions as cars. Per *Aviation and Emissions: A Primer,* "Aircraft jet engines, like many other vehicle engines, produce CO2, H2O vapor, N2O, CO, oxides of sulfur, unburned or partially combusted hydrocarbons or VOCs, particulates, and other trace compounds."[26]

Per FAA Order 1050.1F, the discussion of potential climate impacts should be documented in a separate section of the NEPA document, distinct from air quality27. Where the proposed action or alternative(s) would result in an increase in greenhouse gases (GHG) emissions, the emissions should be assessed either qualitatively or quantitatively.

Researchers developed the Global Warming Potential (GWP) as a way to compare the global warming impacts of different gases, by converting each gas amount to a carbon dioxide equivalent (CO2E). GWPs provide a common unit of measure, which allows for consistency when estimating emissions of these different gases. CO2 has a GWP of one because it is the gas used as the reference point. CH4 does not last as long in the atmosphere as CO2; however, it absorbs much more energy. Therefore, one ton of CH4 has 28 times more heat capturing potential than one ton of CO2. The amount of CH4 emissions would be multiplied by 28 to determine its CO2E value. NOX lasts in the atmosphere far longer than CO2. The amount of nitrous oxides emissions would be multiplied by 298 to determine its CO2E value.

Based on the President's recent Executive Order[28], the project impacts on greenhouse gas (GHG) emissions and climate change should be documented in the Environmental Assessment (EA). Although no federal standards have been set for GHG emissions, it is well established that GHG emissions can affect climate. Based on guidance from the FAA Order 1050.1F Desk Reference, state and local policies and programs that address climate change are discussed in this section. The guidance recommends consideration of: (1) the potential effects of a proposed action or its alternatives on climate change as indicated by its GHG emissions; (2) the implications of climate change for the environmental effects of a proposed action or alternatives.

5.3.2 Affected Environment

Greenhouse gases (GHG) are gases that trap heat in the earth's atmosphere. Both naturally occurring and man-made GHGs primarily include water vapor, carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Activities that require fuel or power are the primary stationary sources of GHGs at airports. Aircraft and ground access vehicles, which are not under the control of an airport, typically generate more GHG emissions than airport-controlled sources.

Research has shown there is a direct correlation between fuel combustion and GHG emissions. In terms of U.S. contribution, the Government Accountability Office (GAO) reports that "domestic aviation contributes about three percent of total carbon dioxide emissions, according to EPA data," compared with other industrial sources, including the remainder of the transportation sector (20%) and power generation (41%). The International Civil Aviation Organization (ICAO) estimates that GHG emissions from aircraft account for roughly three percent of all anthropogenic GHG emissions globally.[19] Climate change due to GHG emissions is a global phenomenon; therefore, the affected environment is the global climate.

[26] 14 FAA, January 2005, Aviation and Emissions A Primer. What emissions come from aviation?

27 https://www.faa.gov/sites/faa.gov/files/about/office_org/headquarters_offices/apl/3-climate.pdf

[28] Executive Order on Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis." January 20, 2021.

5.3.3 Analysis Methodology

For this analysis, GHG emissions associated with the Proposed Action were prepared for carbon dioxide, methane, and nitrous oxide and presented as carbon dioxide equivalent (CO_2e) in metric tons per year relevant to their global warming potential. The carbon dioxide equivalent is estimated by taking the mass equivalent of each pollutant (TPY) and multiplying by the global warming potential equivalent (GWP) of each pollutant and adding them together. For example, the GWP of CO_2 is 1, CH_4 is 28 GWP, and N_2O is 265 GWP, according to the IPCC Fifth Assessment Report[29].

The methodology and assumptions for the GHG analysis are consistent with the air quality analysis discussed in Section 1.2.2 and 2.2.4. GHG emissions associated with the construction and demolition activities as well as the increase in GHG emissions due to operational changes of the Proposed Action were qualitatively evaluated.

5.3.4 Environmental Consequences of Proposed Action Alternative

Table 29 presents the annual greenhouse gas emissions for demolition and construction activities while **Table 30** presents the GHG operational emissions associated with the 2019 existing and future Proposed Action and No Action for 2027 and 2032.

There are no defined significance thresholds for aviation GHG emissions, nor has FAA identified any factors to consider in making a significance determination for GHG emissions.

In summary, while there are no significance thresholds established for climate impacts, GHGs associated with the Proposed Action have been calculated in accordance with the latest FAA guidelines (1050.1F) for climate impacts in a NEPA document[30] and included in the emission spreadsheets in Appendix A.

Table 29. GHG Emissions Associated with Construction and Demolition for the Proposed Action

Source: HMMH 2022

Year	Greenhouse Gases (metric tons/year)			CO_2e (metric tons/year)[Note 2]
	CO_2	CH_4	N_2O	
Construction[Note 1]				
2022	4,611	0.021	0.004	4,613
2023	17,900	0.083	0.017	17,907
2024	32,928	0.144	0.030	32,940
2025	20,689	0.143	0.032	20,702
2026	8,653	0.019	0.002	8,654
2027	7,055	0.051	0.013	7,061
2028	6,947	0.071	0.019	6,955
2029	4,046	0.057	0.014	4,051
2030	1,868	0.018	0.005	1,870

Notes: 1. Construction emissions derived from ACEIT and EPA MOVES3.
2. Emissions are reported as metric tons of carbon dioxide equivalents to present a normalized unit of greenhouse gas emissions based on the global warming potential of each gas. CO_2e is a combination of CO2 emissions with the CO2-equivalent emissions of other greenhouse gases.

[29] https://www.ipcc.ch/assessment-report/ar5/
[30] 1050.1F Desk Reference, https://www.faa.gov/about/office_org/headquarters_offices/apl/environ_policy_guidance/policy/faa_nepa_order/desk_ref/media/3-climate.pdf

Table 30. GHG Emissions Associated with Operations for the Proposed Action

Source: HMMH 2022

Year	Activity	Aircraft Fuel Usage (tons)	Greenhouse Gases (metric tons/year) CO_2	CH_4	N_2O	CO_2e (metric tons/year)[Note 2]
2019	**Existing Conditions[Note1]**	**54,370**	**171,537**	**N/A**	**N/A**	**155,616**
2027	**Aircraft No Action[Note1]**	**67,596**	**213,262**	**N/A**	**N/A**	**193,468**
	Aircraft Proposed Action[Note1]	**67,596**	**213,262**	**N/A**	**N/A**	**193,468**
2032	**Aircraft No Action[Note1]**	**70,338**	**221,197**	**N/A**	**N/A**	**200,666**
	Aircraft Proposed Action[Note1]	**77,940**	**245,906**	**N/A**	**N/A**	**223,082**
	Net Change in CUP GHGs	**N/a**	**1596**	**0.06**	**0.04**	**1,608**
	Net Change in GAV GHGs	**N/a**	**915**	**0.52**	**1.41**	**917**
	Net Change in Additional Parking GHGs	**N/a**	**259**	**0.005**	**0.002**	**260**

Notes: 1. GHG emissions are derived by AEDT for each condition.
2. Emissions are reported as metric tons of carbon dioxide equivalents to present a normalized unit of greenhouse gas emissions based on the global warming potential of each gas. CO_2e is a combination of CO2 emissions with the CO2-equivalent emissions of other greenhouse gases.
N/A Not applicable, AEDT does not estimate CH4 and N20 emissions. N/A under the aircraft fuel usage does not apply to operational source

5.3.5 Environmental Consequences of No Action Alternative

The No-Action Alternative assumes that the proposed action is not implemented, and air quality would remain unchanged for 2027. Therefore, no additional air quality impacts would occur as a result of the No-Action case. For 2032, the No Action assumes hard stands are in place to address additional aircraft activity due to the constrained gates at the terminal to account for additional APU and GPU activity

6. Aircraft Noise Terminology

Noise is a complex physical quantity. The properties, measurement, and presentation of noise involve specialized terminology that can be difficult to understand. To provide a basic reference on these technical issues, this section introduces fundamentals of noise terminology, the effects of noise on human activity, and noise propagation.

6.1 Introduction to Noise Terminology

Analyses of potential impacts from changes in aircraft noise levels rely largely on a measure of cumulative noise exposure over an entire calendar year, expressed in terms of a metric called the Day-Night Average Sound Level (DNL). However, DNL does not provide an adequate description of noise for many purposes. A variety of measures, which are further described in subsequent sub-sections, are available to address essentially any issue of concern, including:

- Sound Pressure Level, SPL, and the Decibel, dB
- A-Weighted Decibel, dBA
- Maximum A-Weighted Sound Level, L_{max}
- Time Above, TA
- Sound Exposure Level, SEL
- Equivalent A-Weighted Sound Level, L_{eq}
- Day-Night Average Sound Level, DNL

6.1.1 Sound Pressure Level, SPL, and the Decibel, dB

All sounds come from a sound source – a musical instrument, a voice speaking, an airplane passing overhead. It takes energy to produce sound. The sound energy produced by any sound source travels through the air in sound waves – tiny, quick oscillations of pressure just above and just below atmospheric pressure. The ear senses these pressure variations and – with much processing in our brain – translates them into "sound."

Our ears are sensitive to a wide range of sound pressures. The loudest sounds that we can hear without pain contain about one million times more energy than the quietest sounds we can detect. To allow us to perceive sound over this very wide range, our ear/brain "auditory system" compresses our response in a complex manner, represented by a term called sound pressure level (SPL), which we express in units called decibels (dB).

Mathematically, SPL is a logarithmic quantity based on the ratio of two sound pressures, the numerator being the pressure of the sound source of interest (P_{source}), and the denominator being a reference pressure ($P_{reference}$) [31]

$$\textit{Sound Pressure Level (SPL)} = 20 * Log\left(\frac{P_{source}}{P_{reference}}\right) dB$$

The logarithmic conversion of sound pressure to SPL means that the quietest sound that we can hear (the reference pressure) has a sound pressure level of about 0 dB, while the loudest sounds

[31] The reference pressure is approximately the quietest sound that a healthy young adult can hear.

that we hear without pain have sound pressure levels of about 120 dB. Most sounds in our day-to-day environment have sound pressure levels from about 40 to 100 dB[32].

Because decibels are logarithmic quantities, we cannot use common arithmetic to combine them. For example, if two sound sources each produce 100 dB operating individually, when they operate simultaneously, they produce 103 dB -- not the 200 dB we might expect. Increasing to four equal sources operating simultaneously will add another three decibels of noise, resulting in a total SPL of 106 dB. For every doubling of the number of equal sources, the SPL goes up another three decibels.

If one noise source is much louder than another is, the louder source "masks" the quieter one and the two sources together produce virtually the same SPL as the louder source alone. For example, a 100 dB and 80 dB sources produce approximately 100 dB of noise when operating together.

Two useful "rules of thumb" related to SPL are worth noting: (1) humans generally perceive a six to 10 dB increase in SPL to be about a doubling of loudness,[33] and (2) changes in SPL of less than about three decibels for an particular sound are not readily detectable outside of a laboratory environment.

6.1.2 A-Weighted Decibel

An important characteristic of sound is its frequency, or "pitch." This is the per-second oscillation rate of the sound pressure variation at our ear, expressed in units known as Hertz (Hz).

When analyzing the total noise of any source, acousticians often break the noise into frequency components (or bands) to consider the "low," "medium," and "high" frequency components. This breakdown is important for two reasons:

- Our ear is better equipped to hear mid and high frequencies and is least sensitive to lower frequencies. Thus, we find mid- and high-frequency noise more annoying.
- Engineering solutions to noise problems differ with frequency content. Low-frequency noise is generally harder to control.

The normal frequency range of hearing for most people extends from a low of about 20 Hz to a high of about 10,000 to 15,000 Hz. Most people respond to sound most readily when the predominant frequency is in the range of normal conversation – typically around 1,000 to 2,000 Hz. The acoustical community has defined several "filters," which approximate this sensitivity of our ear and thus, help us to judge the relative loudness of various sounds made up of many different frequencies.

The so-called "A" filter ("A weighting") generally does the best job of matching human response to most environmental noise sources, including natural sounds and sound from common transportation sources. "A-weighted decibels" are abbreviated "dBA." Because of the correlation with our hearing, the U. S. Environmental Protection Agency (EPA) and nearly every other federal and state agency have adopted A-weighted decibels as the metric for use in

[32] The logarithmic ratio used in its calculation means that SPL changes relatively quickly at low sound pressures and more slowly at high pressures. This relationship matches human detection of changes in pressure. We are much more sensitive to changes in level when the SPL is low (for example, hearing a baby crying in a distant bedroom), than we are to changes in level when the SPL is high (for example, when listening to highly amplified music).

[33] A "10 dB per doubling" rule of thumb is the most often used approximation.

describing environmental and transportation noise. **Figure 23** depicts A-weighting adjustments to sound from approximately 20 Hz to 10,000 Hz.

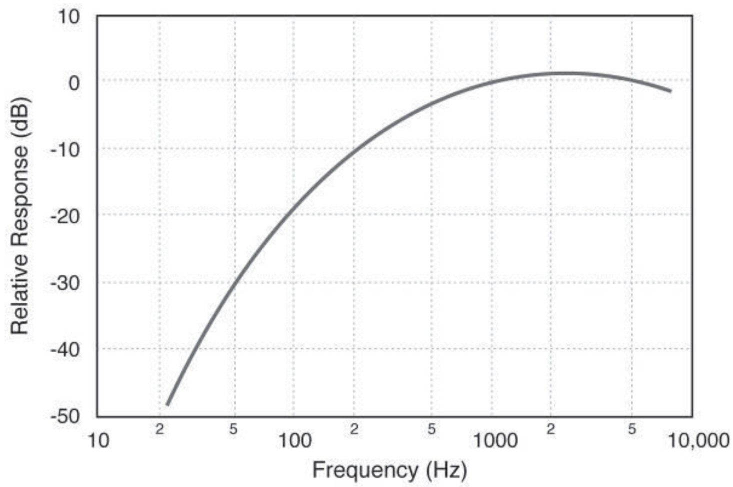


Figure 23. A-Weighting Frequency Response

Source: Extract from Harris, Cyril M., Editor, "Handbook of Acoustical Measurements and Control," McGraw-Hill, Inc., 1991, pg. 5.13; HMMH

As the figure shows, A-weighting significantly de-emphasizes noise content at lower and higher frequencies where we do not hear as well, and has little effect, or is nearly "flat," in for mid-range frequencies between 1,000 and 5,000 Hz. All sound pressure levels presented in this document are A-weighted unless otherwise specified.

Figure 24 depicts representative A-weighted sound levels for a variety of common sounds.

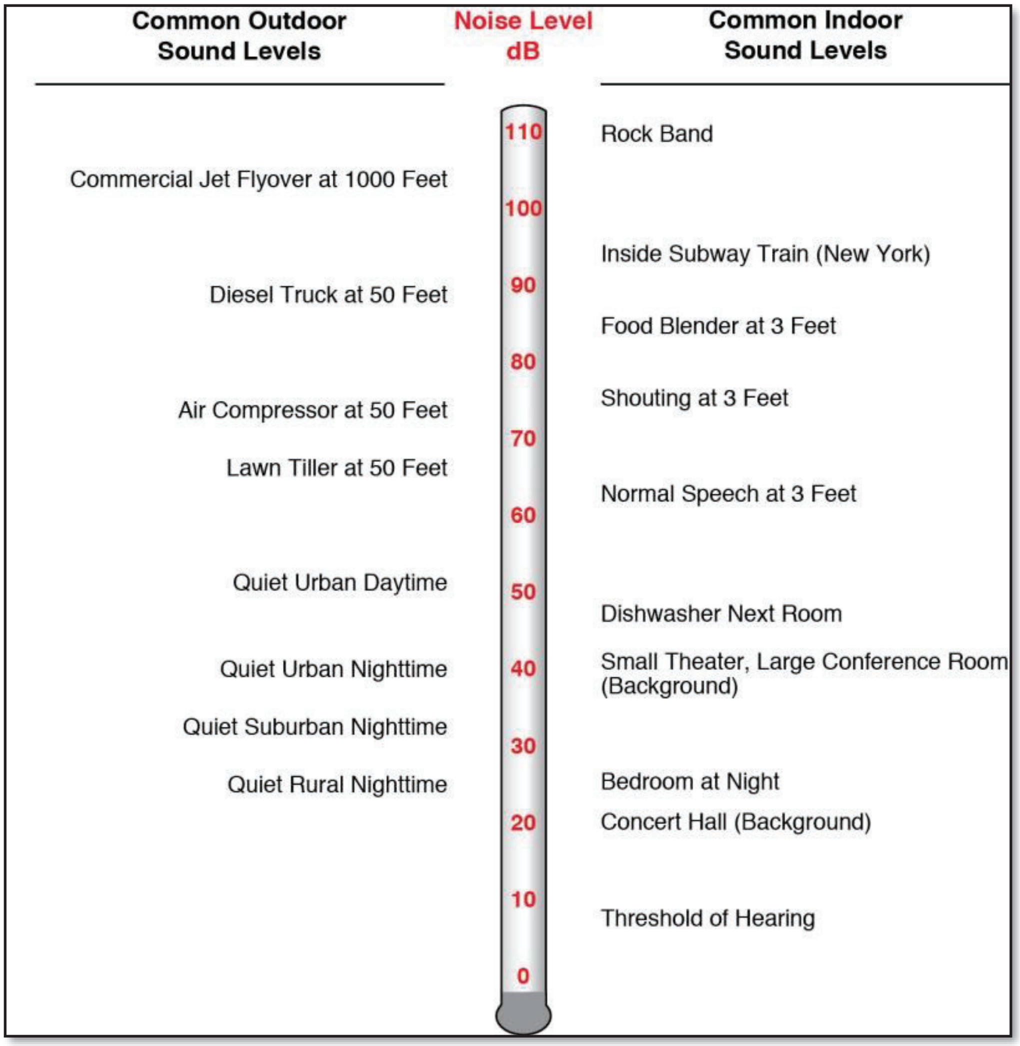


Figure 24. A-Weighted Sound Levels for Common Sounds
Source: HMMH

6.1.3 Maximum A-Weighted Sound Level, L_{max}

An additional dimension to environmental noise is that A-weighted levels vary with time. For example, the sound level increases as a car or aircraft approaches, then falls and blends into the background as the aircraft recedes into the distance. The background or “ambient” level continues to vary in the absence of a distinctive source, for example due to birds chirping, insects buzzing, leaves rustling, etc. It is often convenient to describe a particular noise "event" (such as a vehicle passing by, a dog barking, etc.) by its maximum sound level, abbreviated as L_{max}.

Figure 25 depicts this general concept, for a hypothetical noise event with an L_{max} of approximately 102 dB.

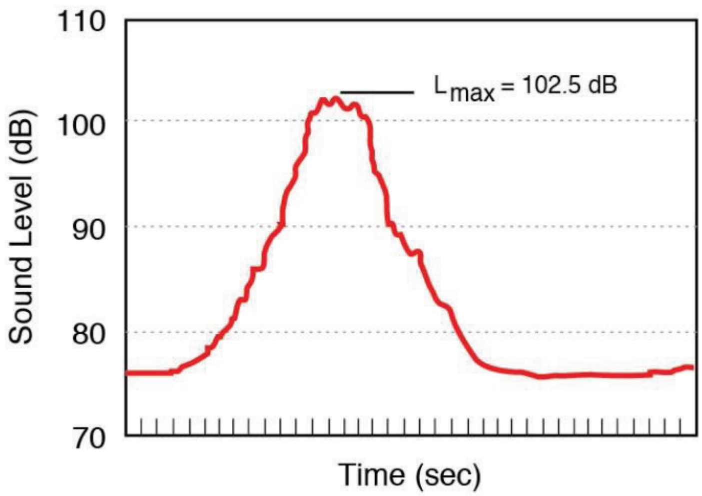


Figure 25. Variation in A-Weighted Sound Level over Time and Maximum Noise Level
Source: HMMH

While the maximum level is easy to understand, it suffers from a serious drawback when used to describe the relative “noisiness” of an event such as an aircraft flyover; i.e., it describes only one dimension of the event and provides no information on the event’s overall, or cumulative, noise exposure. In fact, two events with identical maximum levels may produce very different total exposures. One may be of very short duration, while the other may continue for an extended period and be judged much more annoying. The next section introduces a measure that accounts for this concept of a noise "dose," or the cumulative exposure associated with an individual “noise event” such as an aircraft flyover.

6.1.4 Sound Exposure Level, SEL

The most commonly used measure of cumulative noise exposure for an individual noise event, such as an aircraft flyover, is the Sound Exposure Level, or SEL. SEL is a summation of the A-weighted sound energy over the entire duration of a noise event. SEL expresses the accumulated energy in terms of the one-second-long steady-state sound level that would contain the same amount of energy as the actual time-varying level.

SEL provides a basis for comparing noise events that generally match our impression of their overall “noisiness,” including the effects of both duration and level. The higher the SEL, the more annoying a noise event is likely to be. In simple terms, SEL “compresses” the energy for the noise event into a single second. **Figure 26** depicts this compression, for the same hypothetical event shown in **Figure 25**. Note that the SEL is higher than the L_{max}.

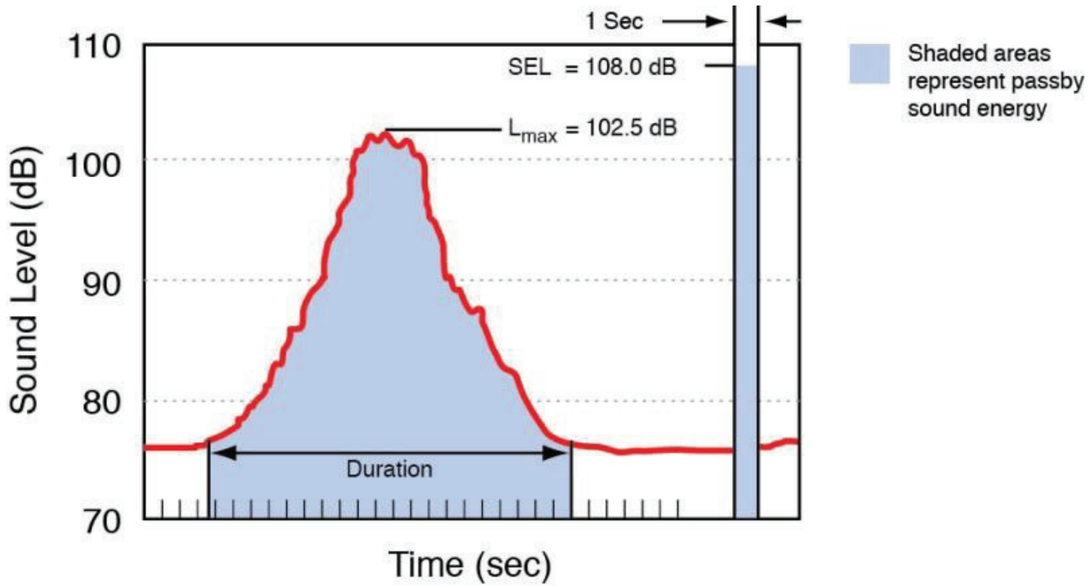


Figure 26. Graphical Depiction of Sound Exposure Level
Source: HMMH

The "compression" of energy into one second means that a given noise event's SEL will almost always will be a higher value than its L_{max}. For most aircraft flyovers, SEL is roughly five to 12 dB higher than L_{max}. Adjustment for duration means that relatively slow and quiet propeller aircraft can have the same or higher SEL than faster, louder jets, which produce shorter duration events.

6.1.5 Equivalent A-Weighted Sound Level, L_{eq}

The Equivalent Sound Level, abbreviated L_{eq}, is a measure of the exposure resulting from the accumulation of sound levels over a particular period of interest; e.g., one hour, an eight-hour school day, nighttime, or a full 24-hour day. L_{eq} plots for consecutive hours can help illustrate how the noise dose rises and falls over a day or how a few loud aircraft significantly affect some hours.

L_{eq} may be thought of as the constant sound level over the period of interest that would contain as much sound energy as the actual varying level. It is a way of assigning a single number to a time-varying sound level. **Figure 27** illustrates this concept for the same hypothetical event shown in **Figure 25** and **Figure 26**. Note that the L_{eq} is lower than either the L_{max} or SEL.

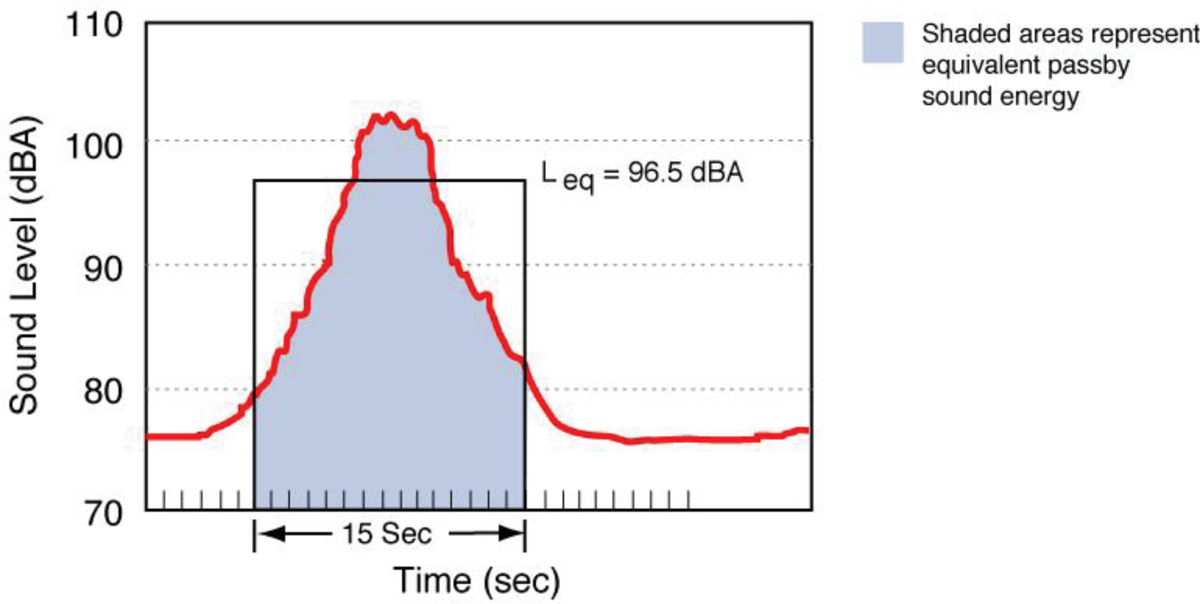


Figure 27. Example of a 15-Second Equivalent Sound Level
Source: HMMH

6.1.6 Day-Night Average Sound Level, DNL or L_{dn}

The FAA requires that airports use a measure of noise exposure that is slightly more complicated than L_{eq} to describe cumulative noise exposure – the Day-Night Average Sound Level, DNL.

The U.S. EPA identified DNL as the most appropriate means of evaluating airport noise based on the following considerations[34].

- The measure should be applicable to the evaluation of pervasive long-term noise in various defined areas and under various conditions over long periods.
- The measure should correlate well with known effects of the noise environment and on individuals and the public.
- The measure should be simple, practical, and accurate. In principal, it should be useful for planning as well as for enforcement or monitoring purposes.
- The required measurement equipment, with standard characteristics, should be commercially available.
- The measure should be closely related to existing methods currently in use.
- The single measure of noise at a given location should be predictable, within an acceptable tolerance, from knowledge of the physical events producing the noise.
- The measure should lend itself to small, simple monitors, which can be left unattended in public areas for long periods.

Most federal agencies dealing with noise have formally adopted DNL. The Federal Interagency Committee on Noise (FICON) reaffirmed the appropriateness of DNL in 1992. The FICON

[34] "Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety," U. S. EPA Report No. 550/9-74-004, March 1974.

summary report stated: "There are no new descriptors or metrics of sufficient scientific standing to substitute for the present DNL cumulative noise exposure metric."

In 2015, the FAA began a multi-year effort to update the scientific evidence on the relationship between aircraft noise exposure and its effects on communities around airports.[35] This was the most comprehensive study using a single noise survey ever undertaken in the United States, polling communities surrounding 20 airports nationwide. The FAA Reauthorization Act of 2018 under Section 188 and 173, required FAA to complete the evaluation of alternative metrics to the DNL standard within one year. The Section 188 and 173 Report to Congress was delivered on April 14, 2020[36] and concluded that while no single noise metric can cover all situations, DNL provides the most comprehensive way to consider the range of factors influencing exposure to aircraft noise. In addition, use of supplemental metrics is both encouraged and supported to further disclose and aid in the public understanding of community noise impacts. The full study supporting these reports was released in January 2021. If changes are warranted in the use of DNL, which DNL level to assess or the use of supplemental metrics, FAA will propose revised policy and related guidance and regulations, subject to interagency coordination, as well as public review and comment.

In simple terms, DNL is the 24-hour L_{eq} with one adjustment; all noises occurring at night (defined as 10 p.m. through 7 a.m.) are increased by 10 dB, to reflect the added intrusiveness of nighttime noise events when background noise levels decrease. In calculating aircraft exposure, this 10 dB increase is mathematically identical to counting each nighttime aircraft noise event ten times.

DNL can be measured or estimated. Measurements are practical only for obtaining DNL values for limited numbers of points, and, in the absence of a permanently installed monitoring system, only for relatively short periods. Most airport noise studies use computer-generated DNL estimates depicted as equal-exposure noise contours (much as topographic maps have contours of equal elevation).

The annual DNL is mathematically identical to the DNL for the average annual day; i.e., a day on which the number of operations is equal to the annual total divided by 365 (366 in a leap year). **Figure 28** graphically depicts the manner in which the nighttime adjustment applies in calculating DNL. **Figure 29** presents representative outdoor DNL values measured at various U.S. locations.

35 Federal Aviation Administration. Press Release – FAA To Re-Evaluate Method for Measuring Effects of Aircraft Noise. https://www.faa.gov/news/press_releases/news_story.cfm?newsId=18774

36 Federal Aviation Administration. Report to Congress on an evaluation of alternative noise metrics. https://www.faa.gov/about/plans_reports/congress/media/Day-Night_Average_Sound_Levels_COMPLETED_report_w_letters.pdf

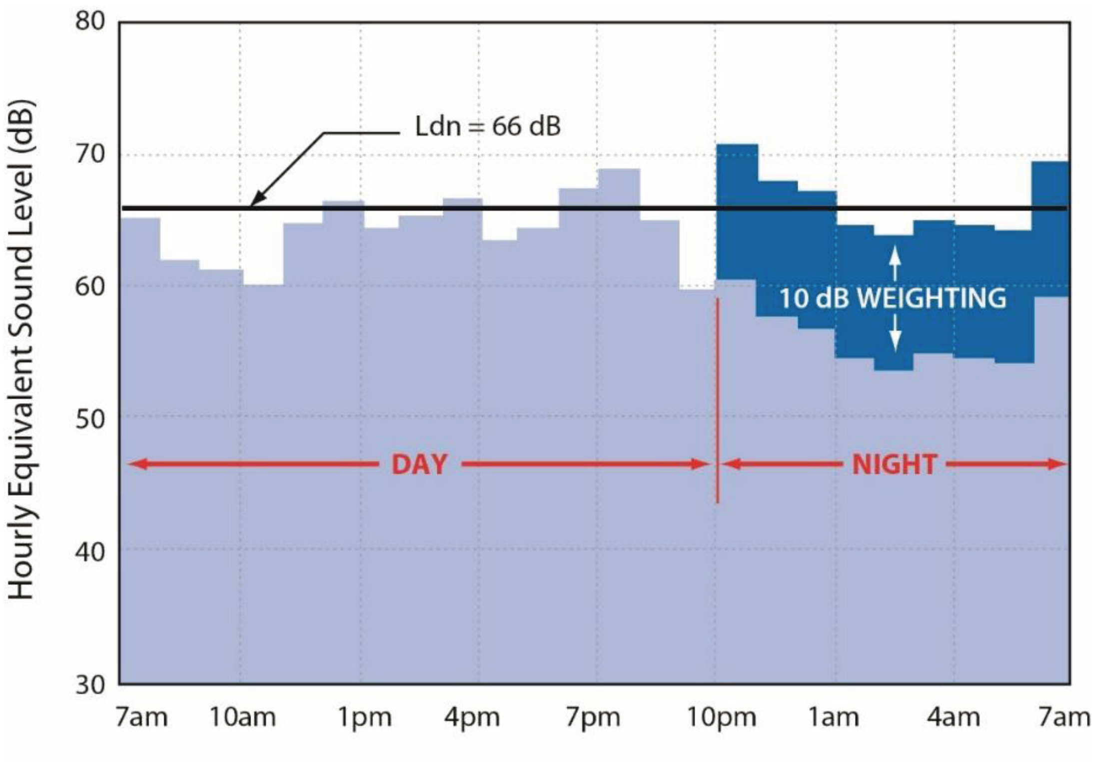


Figure 28. Example of a Day-Night Average Sound Level Calculation
Source: HMMH

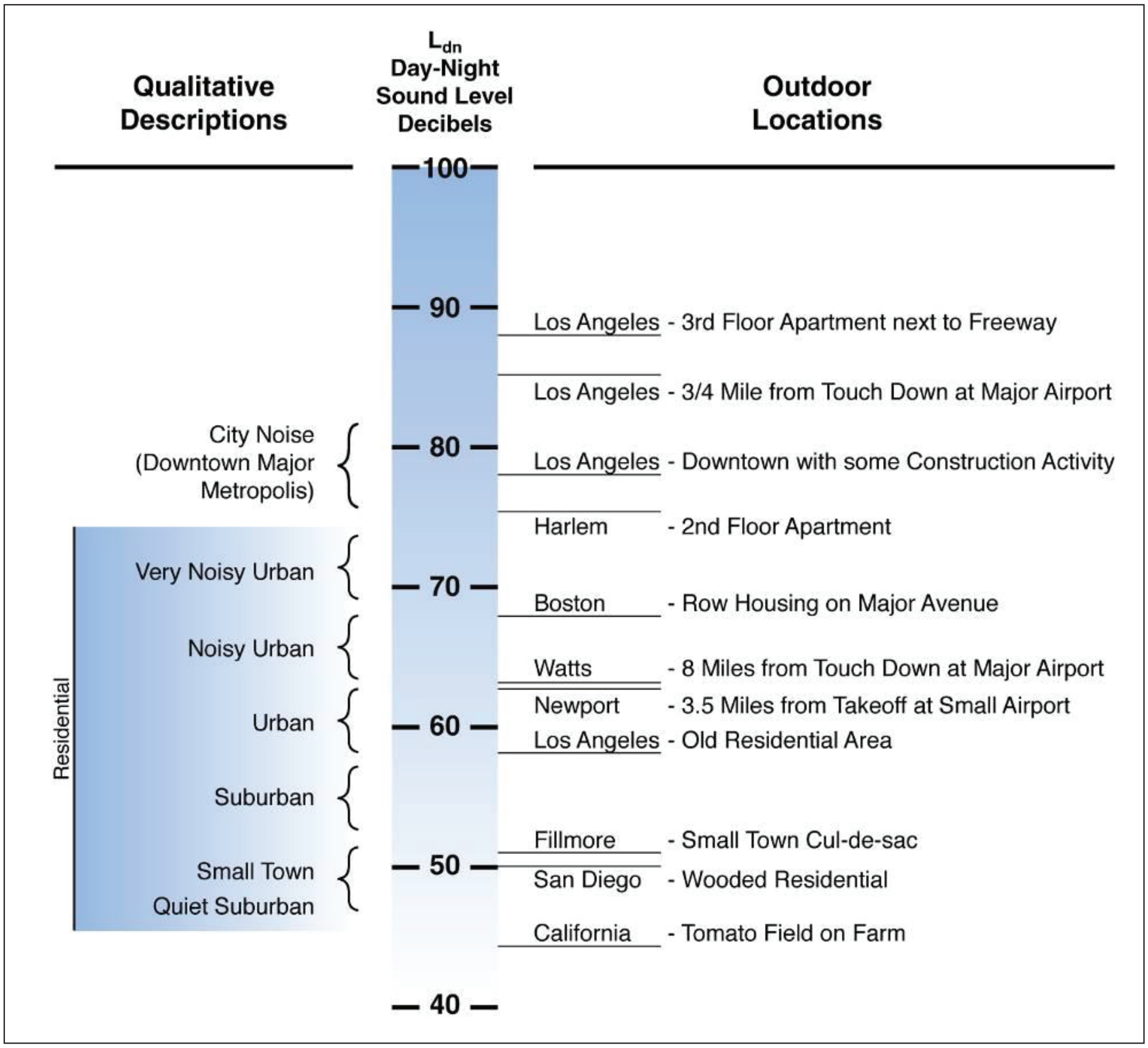


Figure 29. Examples of Measured Day-Night Average Sound Levels, DNL
Source: U.S. Environmental Protection Agency, "Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety," March 1974, p.14.

6.2 Aircraft Noise Effects on Human Activity

Aircraft noise can be an annoyance and a nuisance. It can interfere with conversation and listening to television, disrupt classroom activities in schools, and disrupt sleep. Relating these effects to specific noise metrics helps in the understanding of how and why people react to their environment.

6.2.1 Speech Interference

One potential effect of aircraft noise is its tendency to "mask" speech, making it difficult to carry on a normal conversation. The sound level of speech decreases as the distance between a talker and listener increases. As the background sound level increases, it becomes harder to hear speech.

Figure 30 presents typical distances between talker and listener for satisfactory outdoor conversations, in the presence of different steady A-weighted background noise levels for raised, normal, and relaxed voice effort. As the background level increases, the talker must raise his/her voice, or the individuals must get closer together to continue talking.

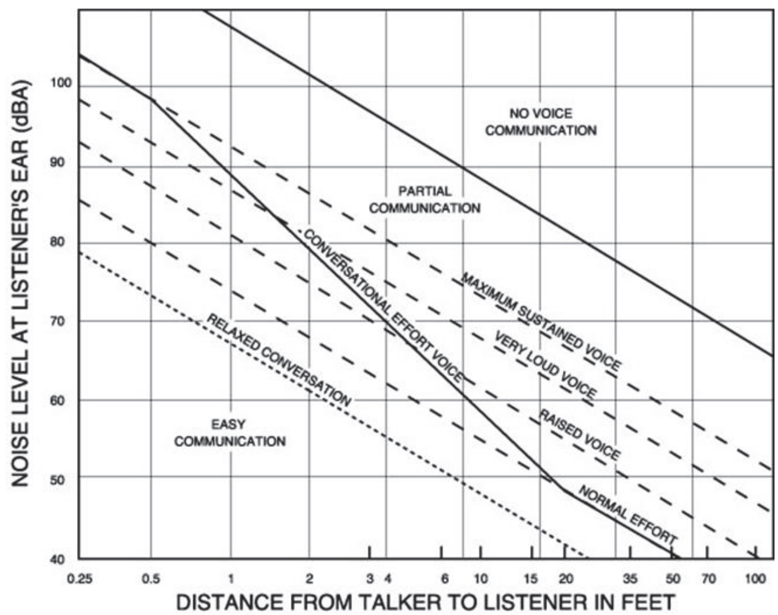


Figure 30. Outdoor Speech Intelligibility

Source: U.S. EPA, "Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety," March 1974, p.D-5.

Satisfactory conversation does not always require hearing every word; 95% intelligibility is acceptable for many conversations. In relaxed conversation, however, we have higher expectations of hearing speech and generally require closer to 100% intelligibility. Any combination of talker-listener distances and background noise that falls below the bottom line in the figure (which roughly represents the upper boundary of 100% intelligibility) represents an ideal environment for outdoor speech communication. Indoor communication is generally acceptable in this region as well.

One implication of the relationships in **Figure 30** is that for typical communication distances of three or four feet, acceptable outdoor conversations can be carried on in a normal voice as long as the background noise outdoors is less than about 65 dB. If the noise exceeds this level, as might occur when an aircraft passes overhead, intelligibility would be lost unless vocal effort were increased or communication distance were decreased.

Indoors, typical distances, voice levels, and intelligibility expectations generally require a background level less than 45 dB. With windows partly open, housing generally provides about 10 to 15 dB of interior-to-exterior noise level reduction. Thus, if the outdoor sound level is 60 dB or less, there is a reasonable chance that the resulting indoor sound level will afford acceptable interior conversation. With windows closed, 24 dB of attenuation is typical.

6.2.2 Sleep Interference

Research on sleep disruption from noise has led to widely varying observations. In part, this is because (1) sleep can be disturbed without awakening, (2) the deeper the sleep the more noise it takes to cause arousal, (3) the tendency to awaken increases with age, and other factors. **Figure 31** shows a summary of findings on the topic.

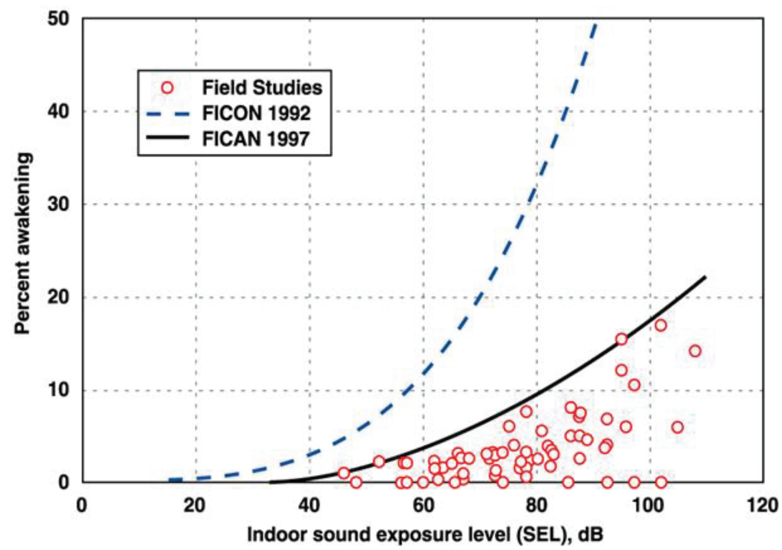


Figure 31. Sleep Interference

Source: Federal Interagency Committee on Aircraft Noise (FICAN), "Effects of Aviation Noise on Awakenings from Sleep," June 1997, pg. 6

Figure 31 uses indoor SEL as the measure of noise exposure; current research supports the use of this metric in assessing sleep disruption. An indoor SEL of 80 dBA results in a maximum of 10% awakening.[37]

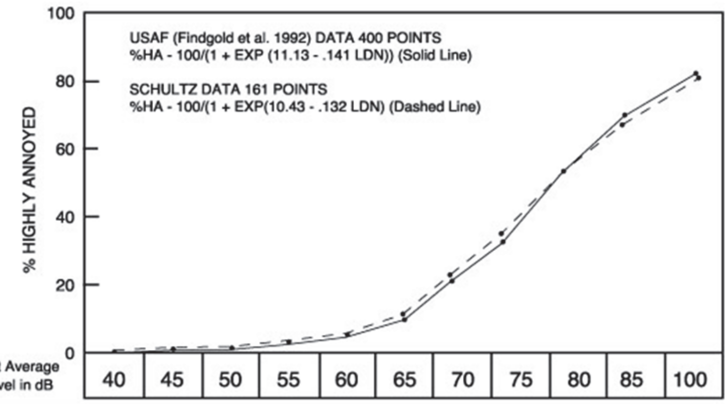
6.2.3 Community Annoyance

Numerous psychoacoustic surveys provide substantial evidence that individual reactions to noise vary widely with noise exposure level. Since the early 1970s, researchers have determined (and subsequently confirmed) that aggregate community response is generally predictable and relates reasonably well to cumulative noise exposure such as DNL. **Figure 32** depicts the widely recognized relationship between environmental noise and the percentage of people "highly annoyed," with annoyance being the key indicator of community response usually cited in this body of research. Separate work by the EPA showed that overall community reaction to a noise environment was also correlated with DNL. **Figure 33** depicts this relationship.

As noted above in the discussion of DNL, the full report on the FAA's recent research, polling communities surrounding 20 airports nationwide, was released in January 2021. At the time of

[37] The awakening data presented in Figure A-9 apply only to individual noise events. The American National Standards Institute (ANSI) has published a standard that provides a method for estimating the number of people awakened at least once from a full night of noise events: ANSI/ASA S12.9-2008 / Part 6, "Quantities and Procedures for Description and Measurement of Environmental Sound – Part 6: Methods for Estimation of Awakenings Associated with Outdoor Noise Events Heard in Homes." This method can use the information on single events computed by a program such as the FAA's AEDT, to compute awakenings.

this reporting, the public review and comment period on that research had ended but FAA had not yet issued new guidance.



Day - Night Average Sound Level in dB		40	45	50	55	60	65	70	75	80	85	100
Calculated %HA Points	USAF	0.41	0.831	1.66	3.31	6.48	12.29	22.1	36.47	53.74	70.16	82.64
	SCHULTZ	0.576	1.11	2.12	4.03	7.52	13.59	23.32	37.05	53.25	68.78	81

Figure 32. Percentage of People Highly Annoyed
Source: FICON, "Federal Agency Review of Selected Airport Noise Analysis Issues," September 1992

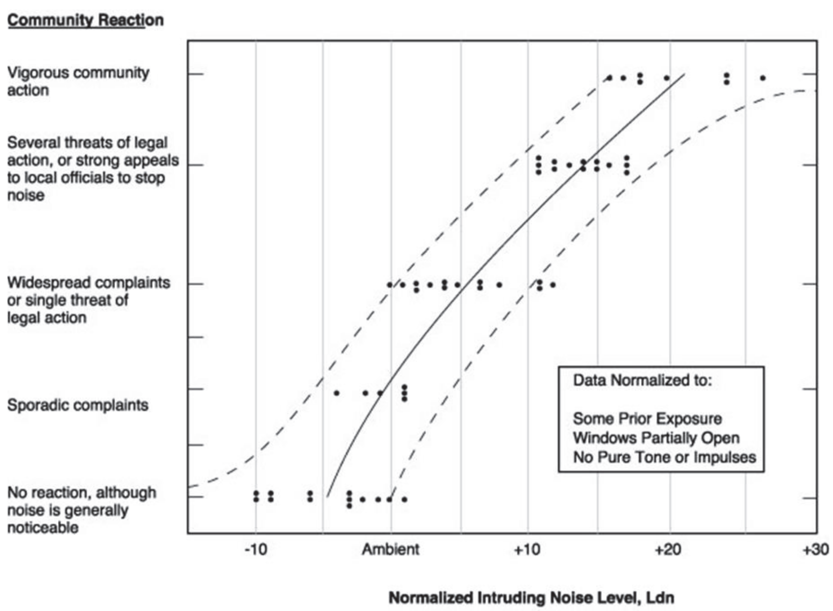


Figure 33. Community Reaction as a Function of Outdoor DNL
Source: Wyle Laboratories, Community Noise, prepared for the U.S. EPA, Office of Noise Abatement and Control, Washington, D.C., December 1971, pg. 63

Data summarized in the figure suggest that little reaction would be expected for intrusive noise levels five decibels below the ambient, while widespread complaints can be expected as intruding noise exceeds background levels by about five decibels. Vigorous action is likely when levels exceed the background by 20 dB.

6.3 Noise Propagation

This section presents information sound-propagation effect due to weather, source-to-listener distance, and vegetation.

6.3.1 Weather-Related Effects

Weather (or atmospheric) conditions that can influence the propagation of sound include humidity, precipitation, temperature, wind, and turbulence (or gustiness). The effect of wind – turbulence in particular – is generally more important than the effects of other factors. Under calm-wind conditions, the importance of temperature (in particular vertical "gradients") can increase, sometimes to very significant levels. Humidity generally has little significance relative to the other effects.

6.3.2 Influence of Humidity and Precipitation

Humidity and precipitation rarely effect sound propagation in a significant manner. Humidity can reduce propagation of high-frequency noise under calm-wind conditions. This is called "Atmospheric absorption." In very cold conditions, listeners often observe that aircraft sound "tinny," because the dry air increases the propagation of high-frequency sound. Rain, snow, and fog also have little if any noticeable effect on sound propagation. A substantial body of empirical data supports these conclusions.[38]

6.3.3 Influence of Temperature

The velocity of sound in the atmosphere is dependent on the air temperature.[39] As a result, if the temperature varies at different heights above the ground, sound will travel in curved paths rather than straight lines. During the day, temperature normally decreases with increasing height. Under such "temperature lapse" conditions, the atmosphere refracts ("bends") sound waves upwards and an acoustical shadow zone may exist at some distance from the noise source.

Under some weather conditions, an upper level of warmer air may trap a lower layer of cool air. Such a "temperature inversion" is most common in the evening, at night, and early in the morning when heat absorbed by the ground during the day radiates into the atmosphere.[40] The effect of an inversion is just the opposite of lapse conditions. It causes sound propagating through the atmosphere to refract downward.

The downward refraction caused by temperature inversions often allows sound rays with originally upward-sloping paths to bypass obstructions and ground effects, increasing noise levels at greater distances. This type of effect is most prevalent at night, when temperature

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[38]Ingard, Uno. "A Review of the Influence of Meteorological Conditions on Sound Propagation," *Journal of the Acoustical Society of America*, Vol. 25, No. 3, May 1953, p. 407.

[39]In dry air, the approximate velocity of sound can be obtained from the relationship:

$c = 331 + 0.6T_c$ (c in meters per second, T_c in degrees Celsius). Pierce, Allan D., *Acoustics: An Introduction to its Physical Principles and Applications.* McGraw-Hill. 1981. p. 29.

[40]Embleton, T.F.W., G.J. Thiessen, and J.E. Piercy, "Propagation in an inversion and reflections at the ground," *Journal of the Acoustical Society of America*, Vol. 59, No. 2, February 1976, p. 278.

inversions are most common and when wind levels often are very low, limiting any confounding factors. [41] Under extreme conditions, one study found that noise from ground-borne aircraft might be amplified 15 to 20 dB by a temperature inversion. In a similar study, noise caused by an aircraft on the ground registered a higher level at an observer location 1.8 miles away than at a second observer location only 0.2 miles from the aircraft. [42]

6.3.4 Influence of Wind

Wind has a strong directional component that can lead to significant variation in propagation. In general, receivers that are downwind of a source will experience higher sound levels, and those that are upwind will experience lower sound levels. Wind perpendicular to the source-to-receiver path has no significant effect.

The refraction caused by wind direction and temperature gradients is additive. [43] One study suggests that for frequencies greater than 500 Hz, the combined effects of these two factors tends towards two extreme values: approximately 0 dB in conditions of downward refraction (temperature inversion or downwind propagation) and -20 dB in upward refraction conditions (temperature lapse or upwind propagation). At lower frequencies, the effects of refraction due to wind and temperature gradients are less pronounced. [44]

Wind turbulence (or “gustiness”) can also affect sound propagation. Sound levels heard at remote receiver locations will fluctuate with gustiness. In addition, gustiness can cause considerable attenuation of sound due to effects of eddies traveling with the wind. Attenuation due to eddies is essentially the same in all directions, with or against the flow of the wind, and can mask the refractive effects discussed above. [45]

6.3.5 Distance-Related Effects

People often ask how distance from an aircraft to a listener affects sound levels. Changes in distance may be associated with varying terrain, offsets to the side of a flight path, or aircraft altitude. The answer is a bit complex because distance affects the propagation of sound in several ways.

The principal effect results from the fact that any emitted sound expands in a spherical fashion – like a balloon – as the distance from the source increases, resulting in the sound energy being spread out over a larger volume. With each doubling of distance, spherical spreading reduces instantaneous or maximum level by approximately six decibels and SEL by approximately three decibels.

[41] Ingard, p. 407.

[42] Dickinson, P.J., “Temperature Inversion Effects on Aircraft Noise Propagation,” (Letters to the Editor) *Journal of Sound and Vibration.* Vol. 47, No. 3, 1976, p. 442.

[43] Piercy and Embleton, p. 1412. Note, in addition, that as a result of the scalar nature of temperature and the vector nature of wind, the following is true: under lapse conditions, the refractive effects of wind and temperature add in the upwind direction and cancel each other in the downwind direction. Under inversion conditions, the opposite is true.

[44] Piercy and Embleton, p. 1413.

[45] Ingard, pp. 409-410.

6.3.6 Vegetation-Related Effects

Sound can be scattered and absorbed as it travels through vegetation. This results in a decrease in sound levels. The literature on the effect of vegetation on sound propagation contains several approaches to calculating its effect. Though these approaches differ in some aspects, they agree on the following:

- The vegetation must be dense and deep enough to block the line of sight
- The noise reduction is greatest at high frequencies and least at low frequencies

The International Standard ISO 9613-2[46] provides a useful example of the types of calculations employed in these methods. Originally developed for industrial noise sources, ISO 9613-2 is well-suited for the evaluation of ground-based aircraft noise sources under favorable meteorological conditions for sound propagation. ISO 9613-2's methodology for calculating sound propagation includes geometric dispersion from acoustical point sources, atmospheric absorption, the effects of areas of hard and soft ground, screening due to barriers, and reflections. The attenuation provided by dense foliage varies by octave band and by distance as shown in **Table 31**.

For propagation through less than 10 m of dense foliage, no attenuation is assumed. For propagation through 10 m to 20 m of dense foliage, the total attenuation is shown in the first row of **Table 31.** For distances between 20 m and 200 m, the total attenuation is computed by multiplying the distance of propagation through dense foliage by the dB/m values shown in the second row of **Table 31.**

Table 31. Dense Foliage Noise Attenuation

Source: ISO 9613-2, Table A.1

Propagation Distance	Nominal Midband Frequency (Hz)							
	63	125	250	500	1,000	2,000	4,000	8,000
10 m to 20 m (dB Attenuation)	0	0	1	1	1	1	2	3
20 m to 200 m (dB/m Attenuation)	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.12

ISO 9613-2 assumes a moderate downwind condition. The equations in the ISO Standard also hold, equivalently, for average propagation under a well-developed moderate ground-based temperature inversion, such as commonly occurs on clear, calm nights. In either case, the sound is refracted downward. The radius of this curved path is assumed to be 5 km. With this curved sound path, only portions of the sound path may travel through the dense foliage, as illustrated by **Figure 34**. Thus, the relative locations of the source and receiver, the dimensions of the volume of dense foliage, and the contours of the intervening terrain are essential to the estimation of the noise attenuation.

[46] International Organization for Standardization, Acoustics – Attenuation of sound during propagation outdoors – Part 2: General Method of calculation, International Standard ISO9613-2, Geneva, Switzerland (15 December 1996).

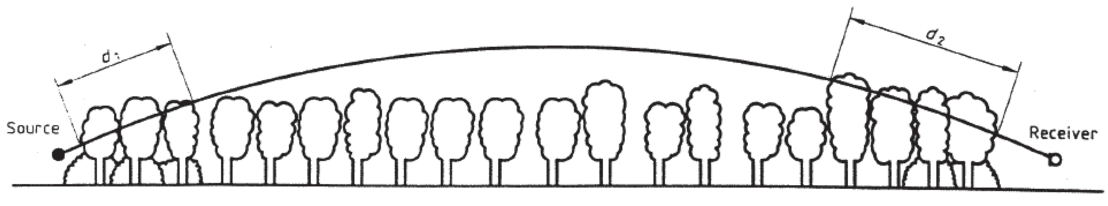

Figure 34. Downward Refracting Sound Path
source: ISO 9613-2

As illustrated in **Figure 34**, the foliage only provides attenuation if the sound path passes through the foliage. For aircraft in the air, the sound will pass through little, if any foliage. Additionally, either the noise source or receiver must be near the foliage for it to have an effect.

Appendix A – Emissions Calculations

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 8:55:42 AM

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STUDY

Study Name

Austin Airport

Study Description

Construction Schedule 2022

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

										NONROAD Emission Factors g/-hp-hr							NONROAD Emissions (TPY)						
										3	6	2	9	7	8	11							
Scenario ID	Year	Project	Constructio	Equipment	MovesLookup	Fuel	HP Averag	Load Facto	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)	PM10 (tpy	PM2.5 (tpy	VOC Exhaust (tpy)
1	2022	Demolition	Building De	Bob Cat	Tractors/Loaders/Backhoes7	Diesel	75	0.21	4800	2.774078	3.776604	694.5538	0.002167	0.351303	0.340764	0.493399	0.231178	0.314724	57.88076	0.000181	0.029276	0.028398	0.041117
1	2022	Demolition	Building De	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	4800	0.101251	0.282904	536.7739	0.001443	0.020296	0.019688	0.019221	0.189649	0.529895	1005.408	0.002703	0.038016	0.036876	0.036002
1	2022	Demolition	Building De	Excavator with Bucket	Excavators175	Diesel	175	0.59	2400	0.160072	0.459199	536.7629	0.001455	0.040972	0.039743	0.023728	0.043724	0.125432	146.619	0.000397	0.011192	0.010856	0.006481
1	2022	Demolition	Building De	Generator Sets	Other Construction Equipme	Diesel	40	0.43	2400	0.378526	2.620463	595.8355	0.001604	0.041872	0.040616	0.108156	0.017224	0.119241	27.11269	7.3E-05	0.001905	0.001848	0.004921
1	2022	Demolition	Building De	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	2800	0.101251	0.282904	536.7739	0.001443	0.020296	0.019688	0.019221	0.110629	0.309105	586.4881	0.001577	0.022176	0.021511	0.021001
2	2022	Demolition	Building De	Bob Cat	Tractors/Loaders/Backhoes7	Diesel	75	0.21	4800	2.774078	3.776604	694.5538	0.002167	0.351303	0.340764	0.493399	0.231178	0.314724	57.88076	0.000181	0.029276	0.028398	0.041117
2	2022	Demolition	Building De	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	4800	0.101251	0.282904	536.7739	0.001443	0.020296	0.019688	0.019221	0.189649	0.529895	1005.408	0.002703	0.038016	0.036876	0.036002
2	2022	Demolition	Building De	Excavator with Bucket	Excavators175	Diesel	175	0.59	2400	0.160072	0.459199	536.7629	0.001455	0.040972	0.039743	0.023728	0.043724	0.125432	146.619	0.000397	0.011192	0.010856	0.006481
2	2022	Demolition	Building De	Generator Sets	Other Construction Equipme	Diesel	40	0.43	2400	0.378526	2.620463	595.8355	0.001604	0.041872	0.040616	0.108156	0.017224	0.119241	27.11269	7.3E-05	0.001905	0.001848	0.004921
2	2022	Demolition	Building De	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	2800	0.101251	0.282904	536.7739	0.001443	0.020296	0.019688	0.019221	0.110629	0.309105	586.4881	0.001577	0.022176	0.021511	0.021001
3	2022	Building - 1	Concrete F	Backhoe	Tractors/Loaders/Backhoes1	Diesel	100	0.21	320	3.022207	2.92543	6.95E+02	0.002137	0.400217	0.388211	0.473168	0.022387	0.02167	5.145436	1.58E-05	0.002965	0.002876	0.003505
3	2022	Building - 1	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.101251	0.282904	5.37E+02	0.001443	0.020296	0.019688	0.019221	0.002371	0.006624	12.5676	3.38E-05	0.000475	0.000461	0.00045
3	2022	Building - 1	Concrete F	Fork Truck	Other Construction Equipme	Diesel	100	0.59	320	0.94411	1.727357	5.96E+02	0.001704	0.138294	0.134145	0.087392	0.019649	0.035949	12.40182	3.55E-05	0.002878	0.002792	0.001819
3	2022	Building - 1	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.101251	0.282904	5.37E+02	0.001443	0.020296	0.019688	0.019221	0.003161	0.008832	16.7568	4.5E-05	0.000634	0.000615	0.0006
3	2022	Building - 1	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.101251	0.282904	5.37E+02	0.001443	2.03E-02	0.019688	0.019221	0.000632	0.001766	3.35136	9.01E-06	0.000127	0.000123	0.00012
3	2022	Building - 1	Constructio	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.101251	0.282904	5.37E+02	1.44E-03	2.03E-02	0.019688	0.019221	0.000395	0.001104	2.0946	5.63E-06	7.92E-05	7.68E-05	7.5E-05
3	2022	Building - 1	Constructio	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.101251	0.282904	5.37E+02	1.44E-03	2.03E-02	0.019688	0.019221	0.000158	0.000442	0.83784	2.25E-06	3.17E-05	3.07E-05	3E-05
3	2022	Building - 1	Exterior W	Fork Truck	Other Construction Equipme	Diesel	100	0.59	240	0.94411	1.727357	5.96E+02	0.001704	0.138294	0.134145	0.087392	0.014736	0.026962	9.301367	2.66E-05	0.002159	0.002094	0.001364
3	2022	Building - 1	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.752214	2.847502	5.96E+02	0.001728	0.088608	0.08595	0.118437	0.003134	0.011865	2.482586	7.2E-06	0.000369	0.000358	0.000493
3	2022	Building - 1	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.101251	0.282904	5.37E+02	0.001443	0.020296	0.019688	0.019221	0.002371	0.006624	12.5676	3.38E-05	0.000475	0.000461	0.00045
3	2022	Building - 1	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.101251	0.282904	5.37E+02	0.001443	0.020296	0.019688	0.019221	0.000948	0.002649	5.027041	1.35E-05	0.00019	0.000184	0.00018
3	2022	Building - 1	Interior Bu	Fork Truck	Other Construction Equipme	Diesel	100	0.59	960	0.94411	1.727357	595.9049	0.001704	0.138294	0.134145	0.087392	0.058946	0.107848	37.20547	0.000106	0.008634	0.008375	0.005456
3	2022	Building - 1	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.752214	2.847502	5.96E+02	0.001728	0.088608	0.08595	0.118437	0.012537	0.047459	9.930342	2.88E-05	0.001477	0.001433	0.001974
3	2022	Building - 1	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.101251	0.282904	536.7739	0.001443	0.020296	0.019688	0.019221	0.004741	0.013247	25.1352	6.76E-05	0.00095	0.000922	0.0009
3	2022	Building - 1	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	0.101251	0.282904	536.7739	0.001443	0.020296	0.019688	0.019221	0.004741	0.013247	25.1352	6.76E-05	0.00095	0.000922	0.0009
3	2022	Building - 1	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.789575	1.585096	5.96E+02	0.00168	0.117174	0.113658	0.071349	0.006162	0.012371	4.65105	1.31E-05	0.000914	0.000887	0.000557
3	2022	Building - 1	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.752214	2.847502	5.96E+02	0.001728	0.088608	0.08595	0.118437	0.001567	0.005932	1.241293	3.6E-06	0.000185	0.000179	0.000247
3	2022	Building - 1	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	0.101251	0.282904	5.37E+02	1.44E-03	2.03E-02	0.019688	0.019221	0.000316	0.000883	1.67568	4.5E-06	6.34E-05	6.15E-05	6E-05
3	2022	Building - 1	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.101251	0.282904	5.37E+02	1.44E-03	2.03E-02	0.019688	0.019221	0.000474	0.001325	2.51352	6.76E-06	9.5E-05	9.22E-05	9E-05
3	2022	Building - 1	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.789575	1.585096	5.96E+02	0.00168	0.117174	0.113658	0.071349	0.016432	0.032989	12.4028	3.5E-05	0.002439	0.002365	0.001485
3	2022	Building - 1	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.101251	0.282904	5.37E+02	0.001443	0.020296	0.019688	0.019221	0.003161	0.008832	16.7568	4.5E-05	0.000634	0.000615	0.0006
3	2022	Building - 1	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.144429	0.577312	5.31E+02	0.001474	0.028127	0.027284	0.039044	0.004929	0.019702	18.11938	5.03E-05	0.00096	0.000931	0.001332
3	2022	Building - 1	Structural	Fork Truck	Other Construction Equipme	Diesel	100	0.59	120	0.94411	1.727357	5.96E+02	0.001704	0.138294	0.134145	0.087392	0.007368	0.013481	4.650683	1.33E-05	0.001079	0.001047	0.000682
3	2022	Building - 1	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.101251	0.282904	5.37E+02	0.001443	0.020296	0.019688	0.019221	0.002371	0.006624	12.5676	3.38E-05	0.000475	0.000461	0.00045
3	2022	Building - 1	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	0.101251	0.282904	5.37E+02	0.001443	2.03E-02	0.019688	0.019221	0.000632	0.001766	3.35136	9.01E-06	0.000127	0.000123	0.00012
																	1.37913	**3.206988**	**3904.888**	**0.010574**	**0.234496**	**0.227462**	**0.242986**

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

																						MOVES ONROAD			
								5														7	10	13	11
Scenario ID	Year	Project	Equipment	Equipment Category	On-road Activity	Lookup	Fuel	Roadway T	Round Trip	Distance fo	Number of	Number of	Number of	Project Len	Project Wi	Project Are	Building He	Open Spac	Number of	Activity Ra	VMT	CO	NOx	SO2	PM10
1	2022	Demolition	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrban Unrestricted AccessSingle	Diesel	Urban Unr	40	5	1	--	129			200000	25	25	--	--	0	1.383635	2.165527	0.003602	0.056872
1	2022	Demolition	Passenger	Passenger Car	Employee Commute	GasolineUrban Unrestricted AccessPas	Gasoline	Urban Unr	30	--	3.85	3.85	129	--	--	--	--	--	--	--	14900	3.263442	0.113708	0.002265	0.002414
2	2022	Demolition	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrban Unrestricted AccessSingle	Diesel	Urban Unr	40	5	1	--	65	--	--	200000	25	25	--	--	0	1.383635	2.165527	0.003602	0.056872
2	2022	Demolition	Passenger	Passenger Car	Employee Commute	GasolineUrban Unrestricted AccessPas	Gasoline	Urban Unr	30	--	18.7	18.7	65	--	--	--	--	--	--	--	36465	3.263442	0.113708	0.002265	0.002414
3	2022	Building - 1	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrban Unrestricted AccessSingle	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	--	2313	1.383635	2.165527	0.003602	0.056872
3	2022	Building - 1	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrban Unrestricted AccessSingle	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	--	1233	1.383635	2.165527	0.003602	0.056872
3	2022	Building - 1	Passenger	Passenger Car	Employee Commute	GasolineUrban Unrestricted AccessPas	Gasoline	Urban Unr	30	--	313.5	313.5	193	--	--	--	--	--	--	--	1815165	3.263442	0.113708	0.002265	0.002414
3	2022	Building - 1	Tractor Tra	Combination Short-haul Truck	Material Delivery	DieselUrban Unrestricted AccessComb	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	0.0016	160	2.337769	4.465257	0.005814	0.094389

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive So	Number of Months	CO	NOx	SO2	PM10	VOC
3	2022	Building - 1	Concrete M	9	0	0	0	0.00855	0

3	2022	Building - 10	Material M	9	0	0	0	0.00895	0
3	2022	Building - 10	Material M	9	0	0	0	0.02645	0
			Totals		**0**	**0**	**0**	**0.04395**	**0**

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2022 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2022	NonRoad	1.37913	3.206988	0.010574057	0.234496354	0.2274615	0.242986	3904.888	--	--	
2022	OnRoad	6.720377	0.243207	0.004676289	0.005206482	0.004614206	0.123834	706.1614	0.021055	0.00418	
2022	Fugitive	0	0	0	0.04395	--	0	--	--	--	
2022	TOTAL	8.099507	3.450195	0.015250346	0.283652836	0.232075706	0.366819	4611.049	0.021055	0.00418	4612.746

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)

Emissions Factors (g/mile)								MOVES ONROAD Emissions (tpy)						
12	14	5	8	9	7	10	13	11	12	14	5	8	9
PM2.5	VOC	CO2	CH4	N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
0.052322	0.154556	1072.698	0.018641	0.003286	0	0	0	0	0	0	0	0	0
0.002136	0.059875	341.0253	0.010196	0.002025	0.0536	0.001868	3.72E-05	3.97E-05	3.51E-05	0.000983	5.601179	0.000167	3.33E-05
0.052322	0.154556	1072.698	0.018641	0.003286	0	0	0	0	0	0	0	0	0
0.002136	0.059875	341.0253	0.010196	0.002025	0.131177	0.004571	9.11E-05	9.7E-05	8.58E-05	0.002407	13.70785	0.00041	8.14E-05
0.052322	0.154556	1072.698	0.018641	0.003286	0.003528	0.005521	9.18E-06	0.000145	0.000133	0.000394	2.735015	4.75E-05	8.38E-06
0.052322	0.154556	1072.698	0.018641	0.003286	0.001881	0.002943	4.9E-06	7.73E-05	7.11E-05	0.00021	1.457965	2.53E-05	4.47E-06
0.002136	0.059875	341.0253	0.010196	0.002025	6.529779	0.227517	0.004533	0.004831	0.004273	0.119802	682.3532	0.020401	0.004052
0.086838	0.209892	1735.582	0.02366	0.002802	0.000412	0.000788	1.03E-06	1.66E-05	1.53E-05	3.7E-05	0.306106	4.17E-06	4.94E-07
					6.720377	0.243207	0.004676	0.005206	0.004614	0.123834	706.1614	0.021055	0.00418

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 9:12:12 AM

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STUDY

Study Name

Austin Airport

Study Description

2023 constructionSchedule

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

									NONROAD Emission Factors g/-hp-hr							NONROAD Emissions (TPY)						
									3	6	2	9	7	8	11							
Scenario I	Year	Project	Constructi	Equipment	MovesLookup	Fuel	HP Averag	Load Factc	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)	PM10 (tpy	PM2.5 (tp	VOC Exhaust (tpy)
1	2023	Building -	Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	480	2.836111	2.782112	694.7262	0.002118	0.374745	0.363503	0.436618	0.031513	0.030913	7.71935	2.35E-05	0.004164	0.004039	0.004851
1	2023	Building -	Concrete F	Concrete Pump	Other Construction Equipment11	Diesel	11	0.43	180	2.478757	4.183305	593.7578	0.002183	0.241812	0.234557	0.836975	0.002326	0.003926	0.557249	2.05E-06	0.000227	0.00022	0.000786
1	2023	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	360	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.010268	0.031643	75.40698	0.000201	0.002178	0.002112	0.002225
1	2023	Building -	Concrete F	Excavator	Excavators175	Diesel	175	0.59	160	0.114838	0.351797	536.7809	0.001438	0.028734	0.027872	0.01734	0.002091	0.006406	9.77493	2.62E-05	0.000523	0.000508	0.000316
1	2023	Building -	Concrete F	Fork Truck	Other Construction Equipment1C	Diesel	100	0.59	480	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.024473	0.049615	18.60407	5.24E-05	0.003626	0.003517	0.00226
1	2023	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.003423	0.010548	25.13566	6.71E-05	0.000726	0.000704	0.000742
1	2023	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	240	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.006845	0.021095	50.27132	0.000134	0.001452	0.001408	0.001483
1	2023	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000285	0.000879	2.094638	5.59E-06	6.05E-05	5.87E-05	6.18E-05
1	2023	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000114	0.000352	0.837855	2.24E-06	2.42E-05	2.35E-05	2.47E-05
1	2023	Building -	Exterior W	Fork Truck	Other Construction Equipment1C	Diesel	100	0.59	840	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.042828	0.086827	32.55713	9.17E-05	0.006346	0.006155	0.003955
1	2023	Building -	Exterior W	Generator	Other Construction Equipment4C	Diesel	40	0.43	80	0.343634	2.588016	595.8526	0.001591	0.034457	0.033423	0.102366	0.000521	0.003925	0.903782	2.41E-06	5.23E-05	5.07E-05	0.000155
1	2023	Building -	Exterior W	Grout Mixer	Other Construction Equipment6C	Diesel	600	0.59	420	0.730929	1.569261	536.5382	0.001634	0.114059	0.110638	0.100008	0.119794	0.25719	87.93459	0.000268	0.018693	0.018133	0.016391
1	2023	Building -	Exterior W	Grout Wheel Truck	Off-highway Trucks600	Diesel	600	0.59	160	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.004564	0.014063	33.51421	8.95E-05	0.000968	0.000939	0.000989
1	2023	Building -	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	1680	0.650574	2.788763	595.8453	0.001694	0.074011	0.071791	0.104973	0.018976	0.081341	17.37921	4.94E-05	0.002159	0.002094	0.003062
1	2023	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	420	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.011979	0.036917	87.9748	0.000235	0.002541	0.002464	0.002596
1	2023	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	840	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.023959	0.073833	175.9496	0.00047	0.005081	0.004929	0.005191
1	2023	Building -	Exterior W	Truck Tower (Mantiwoc type)	Off-highway Trucks300	Diesel	300	0.43	80	0.027959	0.128882	536.8001	0.001417	0.008129	0.007885	0.010881	0.000318	0.001466	6.106591	1.61E-05	9.25E-05	8.97E-05	0.000124
1	2023	Building -	Interior Bu	Fork Truck	Other Construction Equipment1C	Diesel	100	0.59	1600	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.081578	0.165385	62.01357	0.000175	0.012087	0.011725	0.007533
1	2023	Building -	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	3200	0.650574	2.788763	595.8453	0.001694	0.074011	0.071791	0.104973	0.036144	0.154935	33.10325	9.41E-05	0.004112	0.003988	0.005832
1	2023	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	1600	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.045636	0.140635	335.1421	0.000895	0.009679	0.009388	0.009888
1	2023	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	1600	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.045636	0.140635	335.1421	0.000895	0.009679	0.009388	0.009888
1	2023	Building -	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	160	0.655953	1.446394	595.989	0.00166	0.097909	0.094972	0.058537	0.006826	0.015051	6.201786	1.73E-05	0.001019	0.000988	0.000609
1	2023	Building -	Roofing	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	40	0.650574	2.788763	595.8453	0.001694	0.074011	0.071791	0.104973	0.000452	0.001937	0.413791	1.18E-06	5.14E-05	4.99E-05	7.29E-05
1	2023	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	60	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001711	0.005274	12.56783	3.35E-05	0.000363	0.000352	0.000371
1	2023	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	40	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001141	0.003516	8.378553	2.24E-05	0.000242	0.000235	0.000247
1	2023	Building -	Roofing	Truck Tower (Mantiwoc type)	Off-highway Trucks300	Diesel	300	0.43	120	0.027959	0.128882	536.8001	0.001417	0.008129	0.007885	0.010881	0.000477	0.002199	9.159887	2.42E-05	0.000139	0.000135	0.000186
1	2023	Building -	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	800	0.655953	1.446394	595.989	0.00166	0.097909	0.094972	0.058537	0.034129	0.075255	31.00893	8.64E-05	0.005094	0.004941	0.003046
1	2023	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	800	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.022818	0.070317	167.5711	0.000447	0.004839	0.004694	0.004944
1	2023	Building -	Structural	90 Ton Crane	Cranes300	Diesel	300	0.43	240	0.118179	0.470042	530.9465	0.001459	0.023721	0.023009	0.03283	0.004033	0.016041	18.12	4.98E-05	0.00081	0.000785	0.00112
1	2023	Building -	Structural	Concrete Pump	Other Construction Equipment11	Diesel	11	0.43	60	2.478757	4.183305	593.7578	0.002183	0.241812	0.234557	0.836975	0.000775	0.001309	0.18575	6.83E-07	7.56E-05	7.34E-05	0.000262
1	2023	Building -	Structural	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001711	0.005274	12.56783	3.35E-05	0.000363	0.000352	0.000371
1	2023	Building -	Structural	Fork Truck	Other Construction Equipment1C	Diesel	100	0.59	640	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.032631	0.066154	24.80543	6.99E-05	0.004835	0.00469	0.003013
1	2023	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	160	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.004564	0.014063	33.51421	8.95E-05	0.000968	0.000939	0.000989
1	2023	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	360	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.010268	0.031643	75.40698	0.000201	0.002178	0.002112	0.002225
1	2023	Building -	Structural	Trowel Machine	Other Construction Equipment6C	Diesel	600	0.59	40	0.730929	1.569261	536.5382	0.001634	0.114059	0.110638	0.100008	0.011409	0.024494	8.374723	2.55E-05	0.00178	0.001727	0.001561
1	2023	Building -	Structural	Truck Tower (Mantiwoc type)	Off-highway Trucks300	Diesel	300	0.43	720	0.027959	0.128882	536.8001	0.001417	0.008129	0.007885	0.010881	0.002862	0.013195	54.95932	0.000145	0.000832	0.000807	0.001114
2	2023	Demolitio	Building D	Bob Cat	Tractors/Loaders/Backhoes75	Diesel	75	0.21	0	2.597918	3.680372	694.6584	0.002148	0.326425	0.316632	0.458146	0	0	0	0	0	0	0
2	2023	Demolitio	Building D	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	0	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0	0	0	0	0	0	0
2	2023	Demolitio	Building D	Excavator with Bucket	Excavators175	Diesel	175	0.59	0	0.114838	0.351797	536.7809	0.001438	0.028734	0.027872	0.01734	0	0	0	0	0	0	0
2	2023	Demolitio	Building D	Generator Sets	Other Construction Equipment4C	Diesel	40	0.43	0	0.343634	2.588016	595.8526	0.001591	0.034457	0.033423	0.102366	0	0	0	0	0	0	0
2	2023	Demolitio	Building D	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0	0	0	0	0	0	0
3	2023	Demolitio	Building D	Bob Cat	Tractors/Loaders/Backhoes75	Diesel	75	0.21	735.98	2.597918	3.680372	694.6584	0.002148	0.326425	0.316632	0.458146	0.033195	0.047027	8.876145	2.74E-05	0.004171	0.004046	0.005854
3	2023	Demolitio	Building D	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	735.98	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.020992	0.06469	154.1612	0.000411	0.004452	0.004319	0.004548
3	2023	Demolitio	Building D	Excavator with Bucket	Excavators175	Diesel	175	0.59	367.99	0.114838	0.351797	536.7809	0.001438	0.028734	0.027872	0.01734	0.00481	0.014734	22.48173	6.02E-05	0.001203	0.001167	0.000726
3	2023	Demolitio	Building D	Generator Sets	Other Construction Equipment4C	Diesel	40	0.43	367.99	0.343634	2.588016	595.8526	0.001591	0.034457	0.033423	0.102366	0.002398	0.018057	4.157285	1.11E-05	0.00024	0.000233	0.000714
3	2023	Demolitio	Building D	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	429.32	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.012245	0.037736	89.92701	0.00024	0.002597	0.002519	0.002653
4	2023	Access Ro	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	1.998	0.209737	0.546697	536.7345	0.001474	0.052645	0.051065	0.03349	4.77E-05	0.000124	0.122054	3.35E-07	1.2E-05	1.16E-05	7.62E-06
4	2023	Access Ro	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	7.195948	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000205	0.000633	1.507291	4.02E-06	4.35E-05	4.22E-05	4.45E-05
4	2023	Access Ro	Asphalt Pl	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	3.996	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.0001	0.00031	0.177889	5.01E-07	2.45E-05	2.37E-05	1.82E-05
4	2023	Access Ro	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	1.998	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	5.7E-05	0.000176	0.418509	1.12E-06	1.21E-05	1.17E-05	1.23E-05
4	2023	Access Ro	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	1.998	0.504707	1.277084	596.0359	0.001638	0.076422	0.074129	0.042273	6.56E-05	0.000166	0.077451	2.13E-07	9.93E-06	9.63E-06	5.49E-06
4	2023	Access Ro	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	1.998	3.515177	4.233588	693.9764	0.002207	0.495546	0.480679	0.685836	0.000122	0.000147	0.024073	7.66E-08	1.72E-05	1.67E-05	2.38E-05
4	2023	Access Ro	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	2.55744	1.499691	3.765005	595.1478	0.002188	0.172084	0.166922	0.352846	6.24E-05	0.000157	0.024747	9.1E-08	7.16E-06	6.94E-06	1.47E-05
4	2023	Access Ro	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	7.2	2.478757	4.183305	593.7578	0.002183	0.241812	0.234557	0.836975	0.000151	0.000256	0.036286	1.33E-07	1.48E-05	1.43E-05	5.11E-05
4	2023	Access Ro	Clearing a	Chipper/Stump Grinder	Other Construction Equipment1C	Diesel	100	0.43	7.2	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.000268	0.000542	0.203383	5.73E-07	3.96E-05	3.85E-05	2.47E-05
4	2023	Access Ro	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	9.6	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000274	0.000844	2.010853	5.37E-06	5.81E-05	5.63E-05	5.93E-05
4	2023	Access Ro	Concrete F	Air Compressor	Other Construction Equipment1C	Diesel	100	0.43	5.328	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.000198	0.000401	0.150504	4.24E-07	2.93E-05	2.85E-05	1.83E-05
4	2023	Access Ro	Concrete F	Concrete Saws	Other Construction Equipment4C	Diesel	40	0.59	5.328	0.343634	2.588016	595.8526	0.001591	0.034457	0.033423	0.102366	4.76E-05	0.000359	0.082589	2.21E-07	4.78E-06	4.63E-06	1.42E-05

4	2023	Access Roa	Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	22.2	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000633	0.001951	4.650097	1.24E-05	0.000134	0.00013	0.000137
4	2023	Access Roa	Concrete F	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	10.656	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.000268	0.000827	0.474369	1.34E-06	6.52E-05	6.33E-05	4.84E-05
4	2023	Access Roa	Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	15.984	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000456	0.001405	3.34807	8.94E-06	9.67E-05	9.38E-05	9.88E-05
4	2023	Access Roa	Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	5.328	1.177854	2.091966	625.6269	0.001906	0.256407	0.248715	0.31546	0.000714	0.001269	0.379382	1.16E-06	0.000155	0.000151	0.000191
4	2023	Access Roa	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	5.328	0.209737	0.546697	536.7345	0.001474	0.052645	0.051065	0.03349	0.000127	0.000332	0.325477	8.94E-07	3.19E-05	3.1E-05	2.03E-05
4	2023	Access Roa	Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	5.328	1.499691	3.765005	595.1478	0.002188	0.172084	0.166922	0.352846	0.00013	0.000326	0.051557	1.9E-07	1.49E-05	1.45E-05	3.06E-05
4	2023	Access Roa	Curbing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	48	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001369	0.004219	10.05426	2.68E-05	0.00029	0.000282	0.000297
4	2023	Access Roa	Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	48	0.209737	0.546697	536.7345	0.001474	0.052645	0.051065	0.03349	0.001146	0.002987	2.932225	8.05E-06	0.000288	0.000279	0.000183
4	2023	Access Roa	Curbing	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	48	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.001207	0.003725	2.136799	6.01E-06	0.000294	0.000285	0.000218
4	2023	Access Roa	Curbing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	48	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001369	0.004219	10.05426	2.68E-05	0.00029	0.000282	0.000297
4	2023	Access Roa	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	38.72	0.173769	0.459721	536.7568	0.00146	0.044767	0.043424	0.025781	0.000766	0.002026	2.365427	6.44E-06	0.000197	0.000191	0.000114
4	2023	Access Roa	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	38.72	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001104	0.003403	8.110439	2.16E-05	0.000234	0.000227	0.000239
4	2023	Access Roa	Drainage -	Excavator	Excavators175	Diesel	175	0.59	38.72	0.114838	0.351797	536.7809	0.001438	0.028734	0.027872	0.01734	0.000506	0.00155	2.365533	6.34E-06	0.000127	0.000123	7.64E-05
4	2023	Access Roa	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	38.72	1.177854	2.091966	625.6269	0.001906	0.256407	0.248715	0.31546	0.005191	0.009219	2.757067	8.4E-06	0.00113	0.001096	0.00139
4	2023	Access Roa	Drainage -	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	38.72	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.000974	0.003004	1.723684	4.85E-06	0.000237	0.00023	0.000176
4	2023	Access Roa	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	38.72	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001104	0.003403	8.110439	2.16E-05	0.000234	0.000227	0.000239
4	2023	Access Roa	Drainage -	Roller	Rollers100	Diesel	100	0.59	38.72	0.504707	1.277084	596.0359	0.001638	0.076422	0.074129	0.042273	0.001271	0.003216	1.50095	4.12E-06	0.000192	0.000187	0.000106
4	2023	Access Roa	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	21.51111	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000614	0.001891	4.5058	1.2E-05	0.00013	0.000126	0.000133
4	2023	Access Roa	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	21.51111	1.177854	2.091966	625.6269	0.001906	0.256407	0.248715	0.31546	0.002884	0.005122	1.531704	4.67E-06	0.000628	0.000609	0.000772
4	2023	Access Roa	Drainage -	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	21.51111	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.000541	0.001669	0.957602	2.69E-06	0.000132	0.000128	9.78E-05
4	2023	Access Roa	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	21.51111	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000614	0.001891	4.5058	1.2E-05	0.00013	0.000126	0.000133
4	2023	Access Roa	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	21.51111	2.836111	2.782112	694.7262	0.002118	0.374745	0.363503	0.436618	0.001412	0.001385	0.345941	1.05E-06	0.000187	0.000181	0.000217
4	2023	Access Roa	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	2880	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.082144	0.253143	603.2558	0.00161	0.017422	0.016899	0.017798
4	2023	Access Roa	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	8.88	0.173769	0.459721	536.7568	0.00146	0.044767	0.043424	0.025781	0.000176	0.000465	0.542484	1.48E-06	4.52E-05	4.39E-05	2.61E-05
4	2023	Access Roa	Excavation	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	8.88	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000253	0.000781	1.860039	4.96E-06	5.37E-05	5.21E-05	5.49E-05
4	2023	Access Roa	Excavation	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	8.88	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000253	0.000781	1.860039	4.96E-06	5.37E-05	5.21E-05	5.49E-05
4	2023	Access Roa	Excavation	Roller	Rollers100	Diesel	100	0.59	4.098462	0.504707	1.277084	596.0359	0.001638	0.076422	0.074129	0.042273	0.000135	0.00034	0.158874	4.36E-07	2.04E-05	1.98E-05	1.13E-05
4	2023	Access Roa	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	6.66	0.173769	0.459721	536.7568	0.00146	0.044767	0.043424	0.025781	0.000132	0.000348	0.406863	1.11E-06	3.39E-05	3.29E-05	1.95E-05
4	2023	Access Roa	Excavation	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	17.76	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000507	0.001561	3.720077	9.93E-06	0.000107	0.000104	0.00011
4	2023	Access Roa	Excavation	Excavator	Excavators175	Diesel	175	0.59	5.328	0.114838	0.351797	536.7809	0.001438	0.028734	0.027872	0.01734	6.96E-05	0.000213	0.325505	8.72E-07	1.74E-05	1.69E-05	1.05E-05
4	2023	Access Roa	Excavation	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	5.328	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000152	0.000468	1.116023	2.98E-06	3.22E-05	3.13E-05	3.29E-05
4	2023	Access Roa	Excavation	Roller	Rollers100	Diesel	100	0.59	5.328	0.504707	1.277084	596.0359	0.001638	0.076422	0.074129	0.042273	0.000175	0.000443	0.206536	5.67E-07	2.65E-05	2.57E-05	1.46E-05
4	2023	Access Roa	Excavation	Scraper	Scrapers600	Diesel	600	0.59	6.66	0.281977	0.70373	536.7116	0.001506	0.047742	0.046309	0.040601	0.000733	0.001829	1.394842	3.91E-06	0.000124	0.00012	0.000106
4	2023	Access Roa	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	2.507294	0.173769	0.459721	536.7568	0.00146	0.044767	0.043424	0.025781	4.96E-05	0.000131	0.153172	4.17E-07	1.28E-05	1.24E-05	7.36E-06
4	2023	Access Roa	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	13.33333	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.00038	0.001172	2.792851	7.45E-06	8.07E-05	7.82E-05	8.24E-05
4	2023	Access Roa	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	53.33333	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001521	0.004688	11.1714	2.98E-05	0.000323	0.000313	0.00033
4	2023	Access Roa	Fencing	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	53.33333	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.001341	0.004138	2.374221	6.68E-06	0.000326	0.000317	0.000242
4	2023	Access Roa	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	53.33333	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001521	0.004688	11.1714	2.98E-05	0.000323	0.000313	0.00033
4	2023	Access Roa	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	53.33333	3.515177	4.233588	693.9764	0.002207	0.495546	0.480679	0.685836	0.003255	0.00392	0.642585	2.04E-06	0.000459	0.000445	0.000635
4	2023	Access Roa	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	53.33333	2.836111	2.782112	694.7262	0.002118	0.374745	0.363503	0.436618	0.003501	0.003435	0.857706	2.61E-06	0.000463	0.000449	0.000539
4	2023	Access Roa	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	2.9548	0.173769	0.459721	536.7568	0.00146	0.044767	0.043424	0.025781	5.84E-05	0.000155	0.18051	4.91E-07	1.51E-05	1.46E-05	8.67E-06
4	2023	Access Roa	Grading	Grader	Graders300	Diesel	300	0.59	2.9548	0.096096	0.281619	536.7688	0.001445	0.021526	0.020881	0.021383	5.54E-05	0.000162	0.309453	8.33E-07	1.24E-05	1.2E-05	1.23E-05
4	2023	Access Roa	Grading	Roller	Rollers100	Diesel	100	0.59	2.9548	0.504707	1.277084	596.0359	0.001638	0.076422	0.074129	0.042273	9.7E-05	0.000245	0.11454	3.15E-07	1.47E-05	1.42E-05	8.12E-06
4	2023	Access Roa	Hydroseed	Hydroseeder	Other Construction Equipment60	Diesel	600	0.59	2.662	0.730929	1.569261	536.5382	0.001634	0.114059	0.110638	0.100008	0.000759	0.00163	0.557338	1.7E-06	0.000118	0.000115	0.000104
4	2023	Access Roa	Hydroseed	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	2.662	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	7.59E-05	0.000234	0.557593	1.49E-06	1.61E-05	1.56E-05	1.65E-05
4	2023	Access Roa	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	32.91429	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000939	0.002893	6.894352	1.84E-05	0.000199	0.000193	0.000203
4	2023	Access Roa	Markings	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	32.91429	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.000828	0.002554	1.465234	4.12E-06	0.000201	0.000195	0.00015
4	2023	Access Roa	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	32.91429	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000939	0.002893	6.894352	1.84E-05	0.000199	0.000193	0.000203
4	2023	Access Roa	Sidewalks	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	96	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.002738	0.008438	20.10853	5.37E-05	0.000581	0.000563	0.000593
4	2023	Access Roa	Sidewalks	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	96	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.002738	0.008438	20.10853	5.37E-05	0.000581	0.000563	0.000593
4	2023	Access Roa	Sidewalks	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	96	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.002738	0.008438	20.10853	5.37E-05	0.000581	0.000563	0.000593
4	2023	Access Roa	Sidewalks	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	96	2.836111	2.782112	694.7262	0.002118	0.374745	0.363503	0.436618	0.006303	0.006183	1.54387	4.71E-06	0.000833	0.000808	0.00097
4	2023	Access Roa	Sidewalks	Vibratory Compactor	Plate Compactors6	Diesel	6	0.43	96	2.565572	4.203341	588.0264	0.002162	0.262442	0.254569	0.816969	0.0007	0.001148	0.160544	5.9E-07	7.17E-05	6.95E-05	0.000223
4	2023	Access Roa	Soil Erosio	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	2.4	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	6.03E-05	0.000186	0.10684	3.01E-07	1.47E-05	1.42E-05	1.09E-05
4	2023	Access Roa	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	4.8	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000137	0.000422	1.005426	2.68E-06	2.9E-05	2.82E-05	2.97E-05
4	2023	Access Roa	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	2.4	2.478757	4.183305	593.7578	0.002183	0.241812	0.234557	0.836975	3.1E-05	5.23E-05	0.00743	2.73E-08	3.03E-06	2.94E-06	1.05E-05
4	2023	Access Roa	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	2.4	2.836111	2.782112	694.7262	0.002118	0.374745	0.363503	0.436618	0.000158	0.000155	0.038597	1.18E-07	2.08E-05	2.02E-05	2.43E-05
4	2023	Access Roa	Street Ligh	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	32	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000913	0.002813	6.702842	1.79E-05	0.000194	0.000188	0.000198
4	2023	Access Roa	Street Ligh	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	32	1.177854	2.091966	625.6269	0.001906	0.256407	0.248715	0.31546	0.00429	0.007619	2.278568	6.94E-06	0.000934	0.000906	0.001149
4	2023	Access Roa	Street Ligh	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	32	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.000805	0.002483	1.424533	4.01E-06	0.000196	0.00019	0.000145
4	2023	Access Roa	Street Ligh	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	32	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000913	0.002813	6.702842	1.79E-05	0.000194	0.000188	0.000198
4	2023	Access Roa	Street Ligh	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	32	3.515177	4.233588	693.9764	0.002207	0.495546	0.480679	0.685836	0.001953	0.002352	0.385551	1.23E-06	0.000275	0.000267	0.000381
4	2023	Access Roa	Street Ligh	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	32	2.836111	2.782112	694.7262	0.002118	0.374745	0.363503	0.436618	0.002101	0.002061	0.514623	1.57E-06	0.000278	0.000269	0.000323
4	2023	Access Roa	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	3.365053	0.173769	0.459721	536.7568	0.00146	0.044767	0.043424	0.025781	6.66E-05	0.000176	0.205573	5.59E-07	1.71E-05	1.66E-05	9.87E-06
4	2023	Access Roa	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	23.68	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000675	0.002081	4.960103	1.32E-05	0.000143	0.000139	0.000146
4	2023	Access Roa	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	3.365053	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	9.6E-05	0.000296	0.704857	1.88E-06	2.04E-05	1.97E-05	2.08E-05
4	2023	Access Roa	Subbase P	Roller	Rollers100	Diesel	100	0.59	3.278769	0.504707	1.277084	596.0359	0.001638	0.076422	0.074129	0.042273	0.000108	0.000272	0.127099	3.49E-07	1.63E-05	1.58E-05	9.01E-06
4	2023	Access Roa	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	6.566667	0.173769	0.459721	536.7568	0.00146	0.044767	0.043424	0.025781	0.00013	0.000344	0.401161	1.09E-06	3.35E-05	3.25E-05	1.93E-05
4	2023	Access Roa	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	6.566667	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000187	0.000577	1.375479	3.67E-06	3.97E-05	3.85E-05	4.06E-05
4	2023	Access Roa	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.566667	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000187	0.000577	1.375479	3.67E-06	3.97E-05	3.85E-05	4.06E-05
4	2023	Access Roa	Tree Planti	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	24532.8	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.699733	2.156356	5138.734	0.013716	0.148405	0.143953	0.151608
4	2023	Access Roa	Tree Planti	Other General Equipment	Other Construction Equipment17	Diesel	175	0.43	24532.8	0.30314	0.935436	536.6725	0.00151	0.073779	0.071565	0.054797	0.616885	1.903593	1092.118	0.003074	0.150138	0.145634	0.111511
4	2023	Access Roa	Tree Planti	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	24532.8	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.699733	2.156356	5138.734	0.013716	0.148405	0.143953	0.151608
4	2023	Access Roa	Tree Planti	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	24532.8	2.836111	2.782112	694.7262	0.002118	0.374745	0.363503	0.436618	1.610631	1.579966	394.536	0.001203	0.212818	0.206434	0.247956
5	2023	Building -	Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	2.836111	2.782112	694.7262	0.002118	0.374745	0.363503	0.436618	0.021009	0.020609	5.146233	1.57E-05	0.002776	0.002693	0.003234
5	2023	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001711	0.005274	12.56783	3.35E-05	0.000363	0.000352	0.000371
5	2023	Building -	Concrete F	Fork Truck	Other Construction Equipment10	Diesel	100	0.59	320	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.016316	0.033077	12.40271	3.49E-05	0.002417	0.002345	0.001507
5	2023	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.002282	0.007032	16.75711	4.47E-05	0.000484	0.000469	0.000494
5	2023	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000456	0.001406	3.351421	8.95E-06	9.68E-05	9.39E-05	9.89E-05
5	2023	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000285	0.000879	2.094638	5.59E-06	6.05E-05	5.87E-05	6.18E-05
5	2023	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000114	0.000352	0.837855	2.24E-06	2.42E-05	2.35E-05	2.47E-05
5	2023	Building -	Exterior W	Fork Truck	Other Construction Equipment10	Diesel	100	0.59	240	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.012237	0.024808	9.302036	2.62E-05	0.001813	0.001759	0.00113
5	2023	Building -	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.650574	2.788763	595.8453	0.001694	0.074011	0.071791	0.104973	0.002711	0.01162	2.482744	7.06E-06	0.000308	0.000299	0.000437
5	2023	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001711	0.005274	12.56783	3.35E-05	0.000363	0.000352	0.000371

5	2023	Building - :	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000685	0.00211	5.027132	1.34E-05	0.000145	0.000141	0.000148
5	2023	Building - :	Interior Bu	Fork Truck	Other Construction Equipment10	Diesel	100	0.59	960	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.048947	0.099231	37.20814	0.000105	0.007252	0.007035	0.00452
5	2023	Building - :	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.650574	2.788763	595.8453	0.001694	0.074011	0.071791	0.104973	0.010843	0.04648	9.930975	2.82E-05	0.001234	0.001197	0.00175
5	2023	Building - :	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.003423	0.010548	25.13566	6.71E-05	0.000726	0.000704	0.000742
5	2023	Building - :	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.003423	0.010548	25.13566	6.71E-05	0.000726	0.000704	0.000742
5	2023	Building - :	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.655953	1.446394	595.989	0.00166	0.097909	0.094972	0.058537	0.005119	0.011288	4.65134	1.3E-05	0.000764	0.000741	0.000457
5	2023	Building - :	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.650574	2.788763	595.8453	0.001694	0.074011	0.071791	0.104973	0.001355	0.00581	1.241372	3.53E-06	0.000154	0.00015	0.000219
5	2023	Building - :	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000228	0.000703	1.675711	4.47E-06	4.84E-05	4.69E-05	4.94E-05
5	2023	Building - :	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000342	0.001055	2.513566	6.71E-06	7.26E-05	7.04E-05	7.42E-05
5	2023	Building - :	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.655953	1.446394	595.989	0.00166	0.097909	0.094972	0.058537	0.013652	0.030102	12.40357	3.45E-05	0.002038	0.001977	0.001218
5	2023	Building - :	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.002282	0.007032	16.75711	4.47E-05	0.000484	0.000469	0.000494
5	2023	Building - :	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.118179	0.470042	530.9465	0.001459	0.023721	0.023009	0.03283	0.004033	0.016041	18.12	4.98E-05	0.00081	0.000785	0.00112
5	2023	Building - :	Structural	Fork Truck	Other Construction Equipment10	Diesel	100	0.59	120	0.783958	1.589339	595.9478	0.001679	0.116159	0.112674	0.072388	0.006118	0.012404	4.651018	1.31E-05	0.000907	0.000879	0.000565
5	2023	Building - :	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.001711	0.005274	12.56783	3.35E-05	0.000363	0.000352	0.000371
5	2023	Building - :	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	0.073093	0.225249	536.7836	0.001433	0.015502	0.015037	0.015837	0.000456	0.001406	3.351421	8.95E-06	9.68E-05	9.39E-05	9.89E-05
																Totals	4.665225	10.42151	14992.32	0.040427	0.8363	0.811211	0.828304

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

MOVES ONROAD Emissions Factors (g/

																						7	10	13	11	12	14
Scenario II	Year	Project	Equipmen	Equipment Category	On-road Activity	Lookup	Fuel	Roadway 1	Round Trip	Distance f	Number o	Number o	Number o	Project Le	Project Wi	Project Ar	Building H	Open Spac	Number o	Activity Ra	VMT	CO	NOx	SO2	PM10	PM2.5	VOC
1	2023	Building - :	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	3	--	129	--	--	100000	--	--	--	--	23125	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
1	2023	Building - :	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	2	--	129	--	--	100000	--	--	--	--	12333	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
1	2023	Building - :	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	968	968	129	--	--	--	--	--	--	--	3746160	3.139617	0.102501	0.002209	0.002342	0.002072	0.082373
1	2023	Building - :	Tractor Tra	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	100000	--	--	--	0.0024	2400	2.29415	4.229434	0.005715	0.083446	0.07677	0.194026
2	2023	Demolitio	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	30666	25	25	--	--	0	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
2	2023	Demolitio	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	3.85	3.85	129	--	--	--	--	--	--	--	14900	3.139617	0.102501	0.002209	0.002342	0.002072	0.082373
3	2023	Demolitio	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	30666	25	25	--	--	0	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
3	2023	Demolitio	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	35.2	35.2	129	--	--	--	--	--	--	--	136224	3.139617	0.102501	0.002209	0.002342	0.002072	0.082373
4	2023	Access Ro	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	1200	12	--	--	--	--	--	209	2.29415	4.229434	0.005715	0.083446	0.07677	0.194026
4	2023	Access Ro	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	1200	12	--	--	--	--	--	3330	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
4	2023	Access Ro	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	1200	12	--	--	--	--	--	296	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
4	2023	Access Ro	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	1200	12	--	--	--	--	--	1776	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
4	2023	Access Ro	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	86	86	258	--	--	--	--	--	--	--	665640	3.139617	0.102501	0.002209	0.002342	0.002072	0.082373
5	2023	Building - :	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	2313	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
5	2023	Building - :	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	1233	1.340232	2.022296	0.003539	0.047556	0.043751	0.134781
5	2023	Building - :	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	415.8	415.8	258	--	--	--	--	--	--	--	3218292	3.139617	0.102501	0.002209	0.002342	0.002072	0.082373
5	2023	Building - :	Tractor Tra	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.29415	4.229434	0.005715	0.083446	0.07677	0.194026

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario II	Year	Project	Fugitive Sc	Number of Months	CO	NOx	SO2	PM10	VOC
1	2023	Building - :	Concrete N	6	0	0	0	0.08555	0
1	2023	Building - :	Material N	6	0	0	0	0.01495	0
1	2023	Building - :	Material N	6	0	0	0	0.04555	0
4	2023	Access Ro	Asphalt Dr	12	0	0	0	0	0.5342
4	2023	Access Ro	Asphalt St	12	0.03485	0.002176	0.000401	0.002386	0.001079
4	2023	Access Ro	Concrete N	12	0	0	0	0.0123	0
4	2023	Access Ro	Material N	12	0	0	0	0.02395	0
4	2023	Access Ro	Material N	12	0	0	0	0.073	0
4	2023	Access Ro	Soil Handli	12	0	0	0	0.004076	0
4	2023	Access Ro	Unstabilize	12	0	0	0	5.81E-09	0
5	2023	Building - :	Concrete N	12	0	0	0	0.00855	0
5	2023	Building - :	Material N	12	0	0	0	0.01195	0
5	2023	Building - :	Material N	12	0	0	0	0.03535	0
		Totals			0.03485	0.002176	0.000401	0.317612	0.535279

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2023 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2023	NonRoad	4.665225	10.42151	0.040426937	0.836300022	0.811211	0.828304	14992.32	--	--	
2023	OnRoad	27.00225	0.991088	0.019134024	0.022674448	0.02015	0.71373	2908.458	0.083864	0.017166	
2023	Fugitive	0.03485	0.002176	0.0004005	0.317612006	--	0.535279	--	--	--	
2023	TOTAL	31.70233	11.41478	0.059961461	1.176586476	0.83136	2.077314	17900.78	0.083864	0.017166	17907.67

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO_2, CH_4, and N_2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)

/mile)							MOVES ONROAD Emissions (tpy)					
5	8	9	7	10	13	11	12	14	5	8	9	
CO2	CH4	N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	
1055.084	0.017295	0.003286	0.034164	0.051551	9.02E-05	0.001212	0.001115	0.003436	26.89522	0.000441	8.38E-05	
1055.084	0.017295	0.003286	0.01822	0.027493	4.81E-05	0.000647	0.000595	0.001832	14.34373	0.000235	4.47E-05	
332.4565	0.009671	0.001982	12.96491	0.423273	0.00912	0.009673	0.008557	0.340154	1372.865	0.039936	0.008183	
1707.092	0.021732	0.002802	0.006069	0.011189	1.51E-05	0.000221	0.000203	0.000513	4.516215	5.75E-05	7.41E-06	
1055.084	0.017295	0.003286	0	0	0	0	0	0	0	0	0	
332.4565	0.009671	0.001982	0.051567	0.001684	3.63E-05	3.85E-05	3.4E-05	0.001353	5.46044	0.000159	3.25E-05	
1055.084	0.017295	0.003286	0	0	0	0	0	0	0	0	0	
332.4565	0.009671	0.001982	0.471451	0.015392	0.000332	0.000352	0.000311	0.012369	49.92235	0.001452	0.000298	
1707.092	0.021732	0.002802	0.000529	0.000974	1.32E-06	1.92E-05	1.77E-05	4.47E-05	0.393287	5.01E-06	6.46E-07	
1055.084	0.017295	0.003286	0.00492	0.007423	1.3E-05	0.000175	0.000161	0.000495	3.872912	6.35E-05	1.21E-05	
1055.084	0.017295	0.003286	0.000437	0.00066	1.15E-06	1.55E-05	1.43E-05	4.4E-05	0.344259	5.64E-06	1.07E-06	
1055.084	0.017295	0.003286	0.002624	0.003959	6.93E-06	9.31E-05	8.57E-05	0.000264	2.065553	3.39E-05	6.43E-06	
332.4565	0.009671	0.001982	2.303683	0.07521	0.001621	0.001719	0.00152	0.060441	243.9388	0.007096	0.001454	
1055.084	0.017295	0.003286	0.003417	0.005156	9.02E-06	0.000121	0.000112	0.000344	2.690104	4.41E-05	8.38E-06	
1055.084	0.017295	0.003286	0.001822	0.002749	4.81E-06	6.46E-05	5.95E-05	0.000183	1.434024	2.35E-05	4.47E-06	
332.4565	0.009671	0.001982	11.13804	0.36363	0.007835	0.00831	0.007351	0.292223	1179.416	0.034308	0.00703	
1707.092	0.021732	0.002802	0.000405	0.000746	1.01E-06	1.47E-05	1.35E-05	3.42E-05	0.301081	3.83E-06	4.94E-07	
		Totals	27.00225	0.991088	0.019134	0.022674	0.02015	0.71373	2908.458	0.083864	0.017166	

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 1:56:32 PM

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STUDY

Study Name

Austin Airport

Study Description

Construction Schedule 2024

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

										NONROAD Emission Factors g/-hp-hr							NONROAD Emissio			
										3	6	2	9	7	8	11				
Scenario II	Year	Project	Constructi	Equipment	MovesLookup	Fuel	HP Averag	Load Facto	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)
1	2024	Taxiways	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	13.73625	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.000277	0.000699	0.839149	2.29E-06
1	2024	Taxiways	Asphalt Pl	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	49.47214	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00101	0.003528	10.36277	2.75E-05
1	2024	Taxiways	Asphalt Pl	Other General Equipment	Other Construction Ec	Diesel	175	0.43	27.4725	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000588	0.00185	1.223041	3.4E-06
1	2024	Taxiways	Asphalt Pl	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	13.73625	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00028	0.000979	2.877288	7.64E-06
1	2024	Taxiways	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	13.73625	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000373	0.001061	0.532495	1.45E-06
1	2024	Taxiways	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	13.73625	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.000783	0.000978	0.165537	5.21E-07
1	2024	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	17.5824	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	0.000428	0.001076	0.170138	6.26E-07
1	2024	Taxiways	Clearing a	Chain Saw	Other Construction Ec	Diesel	11	0.7	36	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.000756	0.001278	0.181429	6.67E-07
1	2024	Taxiways	Clearing a	Chipper/Stump Grinder	Other Construction Ec	Diesel	100	0.43	36	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.001118	0.002509	1.016978	2.83E-06
1	2024	Taxiways	Clearing a	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	48	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00098	0.003423	10.05441	2.67E-05
1	2024	Taxiways	Drainage -	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	105.92	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.001535	0.004311	6.470939	1.74E-05
1	2024	Taxiways	Drainage -	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	105.92	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002162	0.007553	22.18672	5.89E-05
1	2024	Taxiways	Drainage -	Excavator	Excavators175	Diesel	175	0.59	105.92	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.00102	0.003382	6.471154	1.72E-05
1	2024	Taxiways	Drainage -	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	105.92	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.013152	0.023468	7.542934	2.28E-05
1	2024	Taxiways	Drainage -	Other General Equipment	Other Construction Ec	Diesel	175	0.43	105.92	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.002268	0.007132	4.715425	1.31E-05
1	2024	Taxiways	Drainage -	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	105.92	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002162	0.007553	22.18672	5.89E-05
1	2024	Taxiways	Drainage -	Roller	Rollers100	Diesel	100	0.59	105.92	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.002875	0.008181	4.106062	1.12E-05
1	2024	Taxiways	Drainage -	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	58.84444	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001201	0.004196	12.32596	3.27E-05
1	2024	Taxiways	Drainage -	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	58.84444	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.007306	0.013038	4.190519	1.27E-05
1	2024	Taxiways	Drainage -	Other General Equipment	Other Construction Ec	Diesel	175	0.43	58.84444	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.00126	0.003962	2.619681	7.29E-06
1	2024	Taxiways	Drainage -	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	58.84444	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001201	0.004196	12.32596	3.27E-05
1	2024	Taxiways	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	58.84444	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.003618	0.003605	0.946474	2.86E-06
1	2024	Taxiways	Dust Contr	Water Truck	Off-highway Trucks60	Diesel	600	0.59	2880	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.058785	0.205359	603.2644	0.001602
1	2024	Taxiways	Excavatior	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	61.05067	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000885	0.002485	3.72975	1E-05
1	2024	Taxiways	Excavatior	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	61.05067	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001246	0.004353	12.78809	3.4E-05
1	2024	Taxiways	Excavatior	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	61.05067	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001246	0.004353	12.78809	3.4E-05
1	2024	Taxiways	Excavatior	Roller	Rollers100	Diesel	100	0.59	28.17723	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000765	0.002176	1.09231	2.98E-06
1	2024	Taxiways	Excavatior	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	45.788	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000663	0.001863	2.797313	7.52E-06
1	2024	Taxiways	Excavatior	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	122.1013	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002492	0.008706	25.57618	6.79E-05
1	2024	Taxiways	Excavatior	Excavator	Excavators175	Diesel	175	0.59	36.6304	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.000353	0.00117	2.237924	5.95E-06
1	2024	Taxiways	Excavatior	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	36.6304	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000748	0.002612	7.672853	2.04E-05
1	2024	Taxiways	Excavatior	Roller	Rollers100	Diesel	100	0.59	36.6304	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000994	0.002829	1.420003	3.87E-06
1	2024	Taxiways	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	45.788	0.231824	0.588102	536.729	0.001489	0.040091	0.038888	0.034682	0.004142	0.010508	9.589954	2.66E-05
1	2024	Taxiways	Excavatior	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	17.23765	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.00025	0.000702	1.053095	2.83E-06
1	2024	Taxiways	Fencing	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	36.66667	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000748	0.002615	7.680449	2.04E-05
1	2024	Taxiways	Fencing	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	146.6667	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002994	0.010458	30.7218	8.16E-05
1	2024	Taxiways	Fencing	Other General Equipment	Other Construction Ec	Diesel	175	0.43	146.6667	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.00314	0.009875	6.529415	1.82E-05
1	2024	Taxiways	Fencing	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	146.6667	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002994	0.010458	30.7218	8.16E-05
1	2024	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	146.6667	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.008356	0.010445	1.7675	5.56E-06
1	2024	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	146.6667	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.009018	0.008984	2.359035	7.13E-06
1	2024	Taxiways	Grading	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	14.6964	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000213	0.000598	0.897843	2.41E-06
1	2024	Taxiways	Grading	Grader	Graders300	Diesel	300	0.59	14.6964	0.070474	0.225529	536.7797	0.001435	0.016427	0.015934	0.017337	0.000202	0.000647	1.539171	4.11E-06
1	2024	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	14.6964	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000399	0.001135	0.569716	1.55E-06
1	2024	Taxiways	Hydroseec	Hydroseeder	Other Construction Ec	Diesel	600	0.59	13.24	0.674104	1.451475	536.5624	0.00162	0.106831	0.103626	0.092216	0.003483	0.007499	2.772158	8.37E-06
1	2024	Taxiways	Hydroseec	Off-Road Truck	Off-highway Trucks60	Diesel	600	0.59	13.24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00027	0.000944	2.77334	7.36E-06
1	2024	Taxiways	Lighting	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	44.4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000906	0.003166	9.300326	2.47E-05
1	2024	Taxiways	Lighting	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	44.4	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.005513	0.009838	3.16188	9.55E-06
1	2024	Taxiways	Lighting	Other General Equipment	Other Construction Ec	Diesel	175	0.43	44.4	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000951	0.002989	1.976632	5.5E-06
1	2024	Taxiways	Lighting	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	44.4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000906	0.003166	9.300326	2.47E-05
1	2024	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	44.4	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.00253	0.003162	0.53507	1.68E-06
1	2024	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	44.4	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.00273	0.00272	0.714144	2.16E-06
1	2024	Taxiways	Markings	Flatbed Truck	Off-highway Trucks60	Diesel	600	0.59	226.2857	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.004619	0.016135	47.39934	0.000126
1	2024	Taxiways	Markings	Other General Equipment	Other Construction Ec	Diesel	175	0.43	226.2857	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.004844	0.015236	10.07396	2.8E-05
1	2024	Taxiways	Markings	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	226.2857	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.004619	0.016135	47.39934	0.000126
1	2024	Taxiways	Soil Erosio	Other General Equipment	Other Construction Ec	Diesel	175	0.43	12	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000257	0.000808	0.534225	1.49E-06
1	2024	Taxiways	Soil Erosio	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00049	0.001711	5.027203	1.33E-05
1	2024	Taxiways	Soil Erosio	Pumps	Other Construction Ec	Diesel	11	0.43	12	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.000155	0.000262	0.03715	1.37E-07
1	2024	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	12	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.000738	0.000735	0.193012	5.83E-07
1	2024	Taxiways	Subbase P	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	23.13474	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000335	0.000942	1.413364	3.8E-06
1	2024	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	162.8	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.003323	0.011608	34.10119	9.05E-05
1	2024	Taxiways	Subbase P	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	23.13474	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000472	0.00165	4.845959	1.29E-05
1	2024	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	22.54154	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000612	0.001741	0.873838	2.38E-06
1	2024	Taxiways	Topsoil Pl	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	32.65867	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000473	0.001329	1.995206	5.36E-06
1	2024	Taxiways	Topsoil Pl	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	32.65867	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000667	0.002329	6.840906	1.82E-05
1	2024	Taxiways	Topsoil Pl	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	32.65867	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000667	0.002329	6.840906	1.82E-05
2	2024	Terminal A	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	39.738	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.000801	0.002023	2.427598	6.61E-06
2	2024	Terminal A	Asphalt Pl	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	143.1194	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002921	0.010205	29.97877	7.96E-05
2	2024	Terminal A	Asphalt Pl	Other General Equipment	Other Construction Ec	Diesel	175	0.43	79.476	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.001701	0.005351	3.538171	9.84E-06
2	2024	Terminal A	Asphalt Pl	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	39.738	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000811	0.002834	8.323792	2.21E-05
2	2024	Terminal A	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	39.738	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.001079	0.003069	1.540471	4.2E-06
2	2024	Terminal A	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	39.738	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.002264	0.00283	0.478888	1.51E-06
2	2024	Terminal A	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	50.86464	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	0.001237	0.003113	0.492198	1.81E-06
2	2024	Terminal A	Clearing a	Chain Saw	Other Construction Ec	Diesel	11	0.7	81.6	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.001713	0.002898	0.41124	1.51E-06
2	2024	Terminal A	Clearing a	Chipper/Stump Grinder	Other Construction Ec	Diesel	100	0.43	81.6	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.002533	0.005686	2.30515	6.42E-06
2	2024	Terminal A	Clearing a	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	108.8	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002221	0.007758	22.78999	6.05E-05
2	2024	Terminal A	Concrete F	Air Compressor	Other Construction Ec	Diesel	100	0.43	105.968	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.00329	0.007384	2.993531	8.34E-06
2	2024	Terminal A	Concrete F	Concrete Saws	Other Construction Ec	Diesel	40	0.59	105.968	0.319365	2.565449	595.8652	0.001583	0.029353	0.028472	0.098284	0.00088	0.007072	1.642636	4.36E-06
2	2024	Terminal A	Concrete F	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	441.5333	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.009012	0.031484	92.48657	0.000246
2	2024	Terminal A	Concrete F	Other General Equipment	Other Construction Ec	Diesel	175	0.43	211.936	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.004537	0.014269	9.435124	2.62E-05
2	2024	Terminal A	Concrete F	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	317.904	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.006489	0.022668	66.59033	0.000177
2	2024	Terminal A	Concrete F	Rubber Tired Loader	Tractors/Loaders/Bac	Diesel	175	0.59	105.968	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.013158	0.023479	7.546353	2.28E-05
2	2024	Terminal A	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	105.968	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.002137	0.005396	6.473595	1.76E-05

2	2024	Terminal A	Concrete F	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	105.968	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	0.002577	0.006485	1.025413	3.77E-06
2	2024	Terminal A	Drainage - Dozer		Crawler Tractor/Doze	Diesel	175	0.59	23.232	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000337	0.000946	1.419306	3.81E-06
2	2024	Terminal A	Drainage - Dump Truck		Off-highway Trucks60	Diesel	600	0.59	23.232	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000474	0.001657	4.866333	1.29E-05
2	2024	Terminal A	Drainage - Excavator		Excavators175	Diesel	175	0.59	23.232	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.000224	0.000742	1.419353	3.77E-06
2	2024	Terminal A	Drainage - Loader		Tractors/Loaders/Bac	Diesel	175	0.59	23.232	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.002885	0.005147	1.654432	5E-06
2	2024	Terminal A	Drainage - Other General Equipment		Other Construction Ec	Diesel	175	0.43	23.232	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000497	0.001564	1.034259	2.88E-06
2	2024	Terminal A	Drainage - Pickup Truck		Off-highway Trucks60	Diesel	600	0.59	23.232	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000474	0.001657	4.866333	1.29E-05
2	2024	Terminal A	Drainage - Roller		Rollers100	Diesel	100	0.59	23.232	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000631	0.001794	0.900605	2.45E-06
2	2024	Terminal A	Drainage - Dump Truck		Off-highway Trucks60	Diesel	600	0.59	12.90667	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000263	0.00092	2.703518	7.18E-06
2	2024	Terminal A	Drainage - Loader		Tractors/Loaders/Bac	Diesel	175	0.59	12.90667	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.001603	0.00286	0.919129	2.78E-06
2	2024	Terminal A	Drainage - Other General Equipment		Other Construction Ec	Diesel	175	0.43	12.90667	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000276	0.000869	0.574589	1.6E-06
2	2024	Terminal A	Drainage - Pickup Truck		Off-highway Trucks60	Diesel	600	0.59	12.90667	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000263	0.00092	2.703518	7.18E-06
2	2024	Terminal A	Drainage - Tractors/Loader/Backhoe		Tractors/Loaders/Bac	Diesel	100	0.21	12.90667	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.000794	0.000791	0.207595	6.27E-07
2	2024	Terminal A	Dust Contr	Water Truck	Off-highway Trucks60	Diesel	600	0.59	2880	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.058785	0.205359	603.2644	0.001602
2	2024	Terminal A	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	176.6133	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.002559	0.007188	10.78979	2.9E-05
2	2024	Terminal A	Excavation	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	176.6133	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.003605	0.012593	36.99463	9.82E-05
2	2024	Terminal A	Excavation	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	176.6133	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.003605	0.012593	36.99463	9.82E-05
2	2024	Terminal A	Excavation	Roller	Rollers100	Diesel	100	0.59	81.51385	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.002213	0.006296	3.159941	8.61E-06
2	2024	Terminal A	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	132.46	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.001919	0.005391	8.09234	2.17E-05
2	2024	Terminal A	Excavation	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	353.2267	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00721	0.025187	73.98926	0.000196
2	2024	Terminal A	Excavation	Excavator	Excavators175	Diesel	175	0.59	105.968	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.001021	0.003383	6.474086	1.72E-05
2	2024	Terminal A	Excavation	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	105.968	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002163	0.007556	22.19678	5.89E-05
2	2024	Terminal A	Excavation	Roller	Rollers100	Diesel	100	0.59	105.968	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.002876	0.008184	4.107923	1.12E-05
2	2024	Terminal A	Excavation	Scraper	Scrapers600	Diesel	600	0.59	132.46	0.231824	0.588102	536.729	0.001489	0.040091	0.038888	0.034682	0.011983	0.030398	27.74275	7.7E-05
2	2024	Terminal A	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	49.86729	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000723	0.00203	3.046528	8.19E-06
2	2024	Terminal A	Fencing	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	7.955556	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000162	0.000567	1.666425	4.42E-06
2	2024	Terminal A	Fencing	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	31.82222	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00065	0.002269	6.665699	1.77E-05
2	2024	Terminal A	Fencing	Other General Equipment	Other Construction Ec	Diesel	175	0.43	31.82222	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000681	0.002143	1.416685	3.94E-06
2	2024	Terminal A	Fencing	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	31.82222	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00065	0.002269	6.665699	1.77E-05
2	2024	Terminal A	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	31.82222	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.001813	0.002266	0.383494	1.21E-06
2	2024	Terminal A	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	31.82222	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.001957	0.001949	0.511839	1.55E-06
2	2024	Terminal A	Grading	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	33.0403	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000479	0.001345	2.018521	5.43E-06
2	2024	Terminal A	Grading	Grader	Graders300	Diesel	300	0.59	33.0403	0.070474	0.225529	536.7797	0.001435	0.016427	0.015934	0.017337	0.000454	0.001454	3.460349	9.25E-06
2	2024	Terminal A	Grading	Roller	Rollers100	Diesel	100	0.59	33.0403	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000897	0.002552	1.28083	3.49E-06
2	2024	Terminal A	Hydroseec	Hydroseeder	Other Construction Ec	Diesel	600	0.59	29.766	0.674104	1.451475	536.5624	0.00162	0.106831	0.103626	0.092216	0.00783	0.016859	6.232331	1.88E-05
2	2024	Terminal A	Hydroseec	Off-Road Truck	Off-highway Trucks60	Diesel	600	0.59	29.766	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000608	0.002122	6.234989	1.66E-05
2	2024	Terminal A	Lighting	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	14.88	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000304	0.001061	3.116866	8.28E-06
2	2024	Terminal A	Lighting	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	14.88	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.001848	0.003297	1.059657	3.2E-06
2	2024	Terminal A	Lighting	Other General Equipment	Other Construction Ec	Diesel	175	0.43	14.88	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000319	0.001002	0.662439	1.84E-06
2	2024	Terminal A	Lighting	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	14.88	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000304	0.001061	3.116866	8.28E-06
2	2024	Terminal A	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	14.88	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.000848	0.00106	0.179321	5.64E-07
2	2024	Terminal A	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	14.88	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.000915	0.000911	0.239335	7.23E-07
2	2024	Terminal A	Markings	Flatbed Truck	Off-highway Trucks60	Diesel	600	0.59	654.6286	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.013362	0.046678	137.1229	0.000364
2	2024	Terminal A	Markings	Other General Equipment	Other Construction Ec	Diesel	175	0.43	654.6286	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.014014	0.044076	29.14324	8.11E-05
2	2024	Terminal A	Markings	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	654.6286	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.013362	0.046678	137.1229	0.000364
2	2024	Terminal A	Sealing/Fu	Distributing Tanker	Off-highway Trucks60	Diesel	600	0.59	84.7744	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00173	0.006045	17.75742	4.71E-05
2	2024	Terminal A	Sealing/Fu	Other General Equipment	Other Construction Ec	Diesel	175	0.43	84.7744	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.001815	0.005708	3.77405	1.05E-05
2	2024	Terminal A	Sealing/Fu	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	84.7744	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00173	0.006045	17.75742	4.71E-05
2	2024	Terminal A	Soil Erosio	Other General Equipment	Other Construction Ec	Diesel	175	0.43	27.2	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000582	0.001831	1.21091	3.37E-06
2	2024	Terminal A	Soil Erosio	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	54.4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00111	0.003879	11.39499	3.03E-05
2	2024	Terminal A	Soil Erosio	Pumps	Other Construction Ec	Diesel	11	0.43	27.2	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.000351	0.000593	0.084206	3.1E-07
2	2024	Terminal A	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	27.2	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.001672	0.001666	0.437494	1.32E-06
2	2024	Terminal A	Subbase P	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	66.92716	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.00097	0.002724	4.088761	1.1E-05
2	2024	Terminal A	Subbase P	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	470.9689	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.009613	0.033583	98.65234	0.000262
2	2024	Terminal A	Subbase P	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	66.92716	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001366	0.004772	14.01902	3.72E-05
2	2024	Terminal A	Subbase P	Roller	Rollers100	Diesel	100	0.59	65.21108	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.00177	0.005036	2.527953	6.89E-06
2	2024	Terminal A	Topsoil Pla	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	73.42267	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.001064	0.002988	4.485589	1.21E-05
2	2024	Terminal A	Topsoil Pla	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	73.42267	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001499	0.005235	15.37961	4.08E-05
2	2024	Terminal A	Topsoil Pla	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	73.42267	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001499	0.005235	15.37961	4.08E-05
3	2024	Terminal A	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	43.068	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.000868	0.002193	2.605487	7.16E-06
3	2024	Terminal A	Asphalt Pl	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	155.1127	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.003166	0.01106	32.49095	8.63E-05
3	2024	Terminal A	Asphalt Pl	Other General Equipment	Other Construction Ec	Diesel	175	0.43	86.136	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.001844	0.005799	3.834666	1.07E-05
3	2024	Terminal A	Asphalt Pl	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	43.068	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000879	0.003071	9.021316	2.4E-05
3	2024	Terminal A	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	43.068	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.001169	0.003326	1.669561	4.55E-06
3	2024	Terminal A	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	43.068	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.002454	0.003067	0.519018	1.63E-06
3	2024	Terminal A	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	55.12704	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	0.001341	0.003374	0.533444	1.96E-06
3	2024	Terminal A	Clearing a	Chain Saw	Other Construction Ec	Diesel	11	0.7	88.8	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.001864	0.003153	0.447526	1.65E-06
3	2024	Terminal A	Clearing a	Chipper/Stump Grinder	Other Construction Ec	Diesel	100	0.43	88.8	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.002757	0.006188	2.245085	6.99E-06
3	2024	Terminal A	Clearing a	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	118.4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002417	0.008443	24.80087	6.59E-05
3	2024	Terminal A	Concrete F	Air Compressor	Other Construction Ec	Diesel	100	0.43	114.848	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.003565	0.008003	3.244385	9.03E-06
3	2024	Terminal A	Concrete F	Concrete Saws	Other Construction Ec	Diesel	40	0.59	114.848	0.319365	2.565449	595.8652	0.001583	0.029353	0.028472	0.098284	0.000954	0.007665	1.780287	4.73E-06
3	2024	Terminal A	Concrete F	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	478.5333	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.009767	0.034122	100.2368	0.000266
3	2024	Terminal A	Concrete F	Other General Equipment	Other Construction Ec	Diesel	175	0.43	229.696	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.004917	0.015465	10.22578	2.84E-05
3	2024	Terminal A	Concrete F	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	344.544	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.007033	0.024568	72.17053	0.000192
3	2024	Terminal A	Concrete F	Rubber Tired Loader	Tractors/Loaders/Bac	Diesel	175	0.59	114.848	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.01426	0.025447	8.178729	2.47E-05
3	2024	Terminal A	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	114.848	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.002316	0.005848	7.016075	1.91E-05
3	2024	Terminal A	Concrete F	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	114.848	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	0.002793	0.007029	1.111342	4.09E-06
3	2024	Terminal A	Drainage - Dozer		Crawler Tractor/Doze	Diesel	175	0.59	13.12	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.00019	0.000534	0.801536	2.15E-06
3	2024	Terminal A	Drainage - Dump Truck		Off-highway Trucks60	Diesel	600	0.59	13.12	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000268	0.000936	2.748204	7.3E-06
3	2024	Terminal A	Drainage - Excavator		Excavators175	Diesel	175	0.59	13.12	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.000126	0.000419	0.801563	2.13E-06
3	2024	Terminal A	Drainage - Loader		Tractors/Loaders/Bac	Diesel	175	0.59	13.12	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.001629	0.002907	0.934321	2.82E-06
3	2024	Terminal A	Drainage - Other General Equipment		Other Construction Ec	Diesel	175	0.43	13.12	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000281	0.000883	0.584086	1.62E-06
3	2024	Terminal A	Drainage - Pickup Truck		Off-highway Trucks60	Diesel	600	0.59	13.12	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000268	0.000936	2.748204	7.3E-06
3	2024	Terminal A	Drainage - Roller		Rollers100	Diesel	100	0.59	13.12	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000356	0.001013	0.508606	1.39E-06
3	2024	Terminal A	Drainage - Dump Truck		Off-highway Trucks60	Diesel	600	0.59	7.288889	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000149	0.00052	1.52678	4.05E-06
3	2024	Terminal A	Drainage - Loader		Tractors/Loaders/Bac	Diesel	175	0.59	7.288889	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.000905	0.001615	0.519067	1.57E-06
3	2024	Terminal A	Drainage - Other General Equipment		Other Construction Ec	Diesel	175	0.43	7.288889	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000156	0.000491	0.324492	9.03E-07
3	2024	Terminal A	Drainage - Pickup Truck		Off-highway Trucks60	Diesel	600	0.59	7.288889	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000149	0.00052	1.52678	4.05E-06
3	2024	Terminal A	Drainage - Tractors/Loader/Backhoe		Tractors/Loaders/Bac	Diesel	100	0.21	7.288889	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.000448	0.000446	0.117237	3.54E-07
3	2024	Terminal A	Dust Contr	Water Truck	Off-highway Trucks60	Diesel	600	0.59	2880	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.058785	0.205359	603.2644	0.001602
3	2024	Terminal A	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	191.4133	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.002774	0.00779	11.69396	3.14E-05
3	2024	Terminal A	Excavation	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	191.4133	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.003907	0.013649	40.09474	0.000106
3	2024	Terminal A	Excavation	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	191.4133	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.003907	0.013649	40.09474	0.000106
3	2024	Terminal A	Excavation	Roller	Rollers100	Diesel	100	0.59	88.34462	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.002398	0.006823	3.42474	9.33E-06
3	2024	Terminal A	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	143.56	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.00208	0.005843	8.770469	2.36E-05
3	2024	Terminal A	Excavation	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	382.8267	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.007814	0.027298	80.18948	0.000213
3	2024	Terminal A	Excavation	Excavator	Excavators175	Diesel	175	0.59	114.848	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.001106	0.003667	7.016607	1.86E-05
3	2024	Terminal A	Excavation	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	114.848	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002344	0.008189	24.05684	6.39E-05
3	2024	Terminal A	Excavation	Roller	Rollers100	Diesel	100	0.59	114.848	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.003117	0.00887	4.452162	1.21E-05
3	2024	Terminal A	Excavation	Scraper	Scrapers600	Diesel	600	0.59	143.56	0.231824	0.588102	536.729	0.001489	0.040091	0.038888	0.034682	0.012987	0.032945	30.06757	8.34E-05
3	2024	Terminal A	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	54.04612	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000783	0.0022	3.301824	8.87E-06
3	2024	Terminal A	Fencing	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	4.444444	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	9.07E-05	0.000317	0.930964	2.47E-06
3	2024	Terminal A	Fencing	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	17.77778	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000363	0.001268	3.723854	9.89E-06
3	2024	Terminal A	Fencing	Other General Equipment	Other Construction Ec	Diesel	175	0.43	17.77778	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000381	0.001197	0.791444	2.2E-06
3	2024	Terminal A	Fencing	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	17.77778	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000363	0.001268	3.723854	9.89E-06
3	2024	Terminal A	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	17.77778	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.001013	0.001266	0.214242	6.74E-07
3	2024	Terminal A	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	17.77778	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.001093	0.001089	0.285944	8.64E-07
3	2024	Terminal A	Grading	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	35.7709	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000518	0.001456	2.185341	5.87E-06
3	2024	Terminal A	Grading	Grader	Graders300	Diesel	300	0.59	35.7709	0.070474	0.225529	536.7797	0.001435	0.016427	0.015934	0.017337	0.000492	0.001574	3.746327	1E-05

3	2024	Terminal A	Grading	Roller	Rollers100	Diesel	100	0.59	35.7709	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000971	0.002763	1.386684	3.78E-06
3	2024	Terminal A	Hydroseec	Hydroseeder	Other Construction Ec	Diesel	600	0.59	32.226	0.674104	1.451475	536.5624	0.00162	0.106831	0.103626	0.092216	0.008477	0.018253	6.7474	2.04E-05
3	2024	Terminal A	Hydroseec	Off-Road Truck	Off-highway Trucks60	Diesel	600	0.59	32.226	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000658	0.002298	6.750277	1.79E-05
3	2024	Terminal A	Lighting	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	15.68	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00032	0.001118	3.284439	8.72E-06
3	2024	Terminal A	Lighting	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	15.68	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.001947	0.003474	1.116628	3.37E-06
3	2024	Terminal A	Lighting	Other General Equipment	Other Construction Ec	Diesel	175	0.43	15.68	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000336	0.001056	0.698054	1.94E-06
3	2024	Terminal A	Lighting	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	15.68	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00032	0.001118	3.284439	8.72E-06
3	2024	Terminal A	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	15.68	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.000893	0.001117	0.188962	5.95E-07
3	2024	Terminal A	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	15.68	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.000964	0.00096	0.252202	7.62E-07
3	2024	Terminal A	Markings	Flatbed Truck	Off-highway Trucks60	Diesel	600	0.59	709.4857	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.014482	0.05059	148.6137	0.000395
3	2024	Terminal A	Markings	Other General Equipment	Other Construction Ec	Diesel	175	0.43	709.4857	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.015189	0.047769	31.58541	8.79E-05
3	2024	Terminal A	Markings	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	709.4857	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.014482	0.05059	148.6137	0.000395
3	2024	Terminal A	Sealing/Fu	Distributing Tanker	Off-highway Trucks60	Diesel	600	0.59	91.8784	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001875	0.006551	19.24547	5.11E-05
3	2024	Terminal A	Sealing/Fu	Other General Equipment	Other Construction Ec	Diesel	175	0.43	91.8784	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.001967	0.006186	4.090311	1.14E-05
3	2024	Terminal A	Sealing/Fu	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	91.8784	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001875	0.006551	19.24547	5.11E-05
3	2024	Terminal A	Soil Erosio	Other General Equipment	Other Construction Ec	Diesel	175	0.43	29.6	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000634	0.001993	1.312755	3.67E-06
3	2024	Terminal A	Soil Erosio	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	59.2	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001208	0.004221	12.40043	3.29E-05
3	2024	Terminal A	Soil Erosio	Pumps	Other Construction Ec	Diesel	11	0.43	29.6	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.000382	0.000646	0.091636	3.37E-07
3	2024	Terminal A	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	29.6	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.00182	0.001813	0.476096	1.44E-06
3	2024	Terminal A	Subbase P	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	72.53558	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.001051	0.002952	4.431395	1.19E-05
3	2024	Terminal A	Subbase P	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	510.4356	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.010419	0.036397	106.9133	0.000284
3	2024	Terminal A	Subbase P	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	72.53558	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001481	0.005172	15.1938	4.03E-05
3	2024	Terminal A	Subbase P	Roller	Rollers100	Diesel	100	0.59	70.67569	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.001918	0.005459	2.739792	7.47E-06
3	2024	Terminal A	Topsoil Pla	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	79.49067	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.001152	0.003235	4.8563	1.31E-05
3	2024	Terminal A	Topsoil Pla	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	79.49067	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001623	0.005668	16.65066	4.42E-05
3	2024	Terminal A	Topsoil Pla	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	79.49067	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001623	0.005668	16.65066	4.42E-05
4	2024	Taxiway E	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	14.89625	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.0003	0.000759	0.910013	2.48E-06
4	2024	Taxiway E	Asphalt Pl	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	53.64997	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001095	0.003826	11.23789	2.98E-05
4	2024	Taxiway E	Asphalt Pl	Other General Equipment	Other Construction Ec	Diesel	175	0.43	29.7925	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000638	0.002006	1.326325	3.69E-06
4	2024	Taxiway E	Asphalt Pl	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	14.89625	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000304	0.001062	3.12027	8.28E-06
4	2024	Taxiway E	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	14.89625	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000404	0.00115	0.577463	1.57E-06
4	2024	Taxiway E	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	14.89625	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.000849	0.001061	0.179517	5.65E-07
4	2024	Taxiway E	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	19.0672	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	0.000464	0.001167	0.184506	6.78E-07
4	2024	Taxiway E	Clearing a	Chain Saw	Other Construction Ec	Diesel	11	0.7	36	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.000756	0.001278	0.181429	6.67E-07
4	2024	Taxiway E	Clearing a	Chipper/Stump Grinder	Other Construction Ec	Diesel	100	0.43	36	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.001118	0.002509	1.016978	2.83E-06
4	2024	Taxiway E	Clearing a	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	48	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00098	0.003423	10.05441	2.67E-05
4	2024	Taxiway E	Concrete F	Air Compressor	Other Construction Ec	Diesel	100	0.43	39.7232	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.001233	0.002768	1.122156	3.12E-06
4	2024	Taxiway E	Concrete F	Concrete Saws	Other Construction Ec	Diesel	40	0.59	39.7232	0.319365	2.565449	595.8652	0.001583	0.029353	0.028472	0.098284	0.00033	0.002651	0.615759	1.64E-06
4	2024	Taxiway E	Concrete F	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	165.5133	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.003378	0.011802	34.66955	9.21E-05
4	2024	Taxiway E	Concrete F	Other General Equipment	Other Construction Ec	Diesel	175	0.43	79.4464	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.001701	0.005349	3.536854	9.84E-06
4	2024	Taxiway E	Concrete F	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	119.1696	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002432	0.008497	24.96207	6.63E-05
4	2024	Taxiway E	Concrete F	Rubber Tired Loader	Tractors/Loaders/Bac	Diesel	175	0.59	39.7232	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.004932	0.008801	2.828828	8.54E-06
4	2024	Taxiway E	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	39.7232	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.000801	0.002023	2.426694	6.61E-06
4	2024	Taxiway E	Concrete F	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	39.7232	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	0.000966	0.002431	0.384387	1.41E-06
4	2024	Taxiway E	Drainage -	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	78.4	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.001136	0.003191	4.789668	1.29E-05
4	2024	Taxiway E	Drainage -	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	78.4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.0016	0.00559	16.4222	4.36E-05
4	2024	Taxiway E	Drainage -	Excavator	Excavators175	Diesel	175	0.59	78.4	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.000755	0.002503	4.789827	1.27E-05
4	2024	Taxiway E	Drainage -	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	78.4	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.009735	0.017371	5.583139	1.69E-05
4	2024	Taxiway E	Drainage -	Other General Equipment	Other Construction Ec	Diesel	175	0.43	78.4	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.001678	0.005279	3.490269	9.71E-06
4	2024	Taxiway E	Drainage -	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	78.4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.0016	0.00559	16.4222	4.36E-05
4	2024	Taxiway E	Drainage -	Roller	Rollers100	Diesel	100	0.59	78.4	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.002128	0.006055	3.03923	8.28E-06
4	2024	Taxiway E	Drainage -	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	43.55556	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000889	0.003106	9.123443	2.42E-05
4	2024	Taxiway E	Drainage -	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	43.55556	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.005408	0.00965	3.101744	9.37E-06
4	2024	Taxiway E	Drainage -	Other General Equipment	Other Construction Ec	Diesel	175	0.43	43.55556	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000932	0.002933	1.939039	5.39E-06
4	2024	Taxiway E	Drainage -	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	43.55556	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000889	0.003106	9.123443	2.42E-05
4	2024	Taxiway E	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	43.55556	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.002678	0.002668	0.700562	2.12E-06
4	2024	Taxiway E	Dust Contr	Water Truck	Off-highway Trucks60	Diesel	600	0.59	2880	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.058785	0.205359	603.2644	0.001602
4	2024	Taxiway E	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	66.20533	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000959	0.002694	4.044663	1.09E-05
4	2024	Taxiway E	Excavation	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	66.20533	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001351	0.004721	13.86782	3.68E-05
4	2024	Taxiway E	Excavation	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	66.20533	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001351	0.004721	13.86782	3.68E-05
4	2024	Taxiway E	Excavation	Roller	Rollers100	Diesel	100	0.59	30.55631	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000829	0.00236	1.184536	3.23E-06
4	2024	Taxiway E	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	49.654	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.00072	0.002021	3.033497	8.15E-06
4	2024	Taxiway E	Excavation	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	132.4107	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002703	0.009442	27.73564	7.36E-05
4	2024	Taxiway E	Excavation	Excavator	Excavators175	Diesel	175	0.59	39.7232	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.000383	0.001268	2.426878	6.45E-06
4	2024	Taxiway E	Excavation	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	39.7232	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000811	0.002832	8.320691	2.21E-05
4	2024	Taxiway E	Excavation	Roller	Rollers100	Diesel	100	0.59	39.7232	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.001078	0.003068	1.539897	4.2E-06
4	2024	Taxiway E	Excavation	Scraper	Scrapers600	Diesel	600	0.59	49.654	0.231824	0.588102	536.729	0.001489	0.040091	0.038888	0.034682	0.004492	0.011395	10.39966	2.88E-05
4	2024	Taxiway E	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	18.69333	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000271	0.000761	1.142026	3.07E-06
4	2024	Taxiway E	Fencing	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	27.11111	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000553	0.001933	5.678878	1.51E-05
4	2024	Taxiway E	Fencing	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	108.4444	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002213	0.007733	22.71551	6.03E-05
4	2024	Taxiway E	Fencing	Other General Equipment	Other Construction Ec	Diesel	175	0.43	108.4444	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.002322	0.007301	4.82781	1.34E-05
4	2024	Taxiway E	Fencing	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	108.4444	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002213	0.007733	22.71551	6.03E-05
4	2024	Taxiway E	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	108.4444	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.006178	0.007723	1.306879	4.11E-06
4	2024	Taxiway E	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	108.4444	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.006668	0.006643	1.744256	5.27E-06
4	2024	Taxiway E	Grading	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	14.6853	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000213	0.000598	0.897165	2.41E-06
4	2024	Taxiway E	Grading	Grader	Graders300	Diesel	300	0.59	14.6853	0.070474	0.225529	536.7797	0.001435	0.016427	0.015934	0.017337	0.000202	0.000646	1.538008	4.11E-06
4	2024	Taxiway E	Grading	Roller	Rollers100	Diesel	100	0.59	14.6853	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000399	0.001134	0.569286	1.55E-06
4	2024	Taxiway E	Hydroseec	Hydroseeder	Other Construction Ec	Diesel	600	0.59	13.23	0.674104	1.451475	536.5624	0.00162	0.106831	0.103626	0.092216	0.00348	0.007493	2.770064	8.36E-06
4	2024	Taxiway E	Hydroseec	Off-Road Truck	Off-highway Trucks60	Diesel	600	0.59	13.23	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00027	0.000943	2.771246	7.36E-06
4	2024	Taxiway E	Lighting	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	33.12	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000676	0.002362	6.93754	1.84E-05
4	2024	Taxiway E	Lighting	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	33.12	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.004112	0.007338	2.358591	7.12E-06
4	2024	Taxiway E	Lighting	Other General Equipment	Other Construction Ec	Diesel	175	0.43	33.12	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000709	0.00223	1.474461	4.1E-06
4	2024	Taxiway E	Lighting	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	33.12	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000676	0.002362	6.93754	1.84E-05
4	2024	Taxiway E	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	33.12	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.001887	0.002359	0.399134	1.26E-06
4	2024	Taxiway E	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	33.12	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.002036	0.002029	0.532713	1.61E-06
4	2024	Taxiway E	Markings	Flatbed Truck	Off-highway Trucks60	Diesel	600	0.59	245.3943	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.005009	0.017498	51.40195	0.000136
4	2024	Taxiway E	Markings	Other General Equipment	Other Construction Ec	Diesel	175	0.43	245.3943	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.005253	0.016522	10.92464	3.04E-05
4	2024	Taxiway E	Markings	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	245.3943	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.005009	0.017498	51.40195	0.000136
4	2024	Taxiway E	Soil Erosio	Other General Equipment	Other Construction Ec	Diesel	175	0.43	12	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000257	0.000808	0.534225	1.49E-06
4	2024	Taxiway E	Soil Erosio	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00049	0.001711	5.027203	1.33E-05
4	2024	Taxiway E	Soil Erosio	Pumps	Other Construction Ec	Diesel	11	0.43	12	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.000155	0.000262	0.03715	1.37E-07
4	2024	Taxiway E	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	12	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.000738	0.000735	0.193012	5.83E-07
4	2024	Taxiway E	Subbase P	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	25.08842	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000364	0.001021	1.53272	4.12E-06
4	2024	Taxiway E	Subbase P	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	176.5467	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.003604	0.012589	36.98066	9.82E-05
4	2024	Taxiway E	Subbase P	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	25.08842	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000512	0.001789	5.255191	1.4E-05
4	2024	Taxiway E	Subbase P	Roller	Rollers100	Diesel	100	0.59	24.44492	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000664	0.001888	0.947624	2.58E-06
4	2024	Taxiway E	Topsoil Pla	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	32.63467	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000473	0.001328	1.99374	5.36E-06
4	2024	Taxiway E	Topsoil Pla	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	32.63467	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000666	0.002327	6.835879	1.82E-05
4	2024	Taxiway E	Topsoil Pla	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	32.63467	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000666	0.002327	6.835879	1.82E-05
5	2024	Building -	Concrete F	Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	320	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.019675	0.019602	5.146986	1.56E-05
5	2024	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
5	2024	Building -	Concrete F	Fork Truck	Other Construction Ec	Diesel	100	0.59	320	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.013631	0.030597	12.40345	3.45E-05
5	2024	Building -	Concrete F	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
5	2024	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
5	2024	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks60	Diesel	600	0.59	10	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000204	0.000713	2.094668	5.56E-06
5	2024	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks60	Diesel	600	0.59	4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	8.16E-05	0.000285	0.837867	2.22E-06
5	2024	Building -	Exterior W	Fork Truck	Other Construction Ec	Diesel	100	0.59	240	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.010223	0.022947	9.302588	2.59E-05
5	2024	Building -	Exterior W	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	240	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.00233	0.011404	2.482885	6.93E-06
5	2024	Building -	Exterior W	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05

5	2024	Building - :	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00049	0.001711	5.027203	1.33E-05
5	2024	Building - :	Interior Bu	Fork Truck	Other Construction Ec	Diesel	100	0.59	960	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.040892	0.09179	37.21035	0.000104
5	2024	Building - :	Interior Bu	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	960	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.009322	0.045616	9.931538	2.77E-05
5	2024	Building - :	Interior Bu	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002449	0.008557	25.13602	6.67E-05
5	2024	Building - :	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002449	0.008557	25.13602	6.67E-05
5	2024	Building - :	Roofing	High Lift	Rough Terrain Forklift	Diesel	100	0.59	120	0.529425	1.320666	596.0214	0.001641	0.079303	0.076924	0.047138	0.004132	0.010307	4.651592	1.28E-05
5	2024	Building - :	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklift	Diesel	75	0.21	120	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.001165	0.005702	1.241442	3.46E-06
5	2024	Building - :	Roofing	Material Deliveries	Off-highway Trucks60	Diesel	600	0.59	8	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000163	0.00057	1.675734	4.45E-06
5	2024	Building - :	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	12	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000245	0.000856	2.513602	6.67E-06
5	2024	Building - :	Security &	High Lift	Rough Terrain Forklift	Diesel	100	0.59	320	0.529425	1.320666	596.0214	0.001641	0.079303	0.076924	0.047138	0.011018	0.027485	12.40425	3.42E-05
5	2024	Building - :	Security &	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
5	2024	Building - :	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.098349	0.390469	530.9601	0.001447	0.020525	0.01991	0.02823	0.003356	0.013326	18.12047	4.94E-05
5	2024	Building - :	Structural	Fork Truck	Other Construction Ec	Diesel	100	0.59	120	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.005112	0.011474	4.651294	1.3E-05
5	2024	Building - :	Structural	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
5	2024	Building - :	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
6	2024	Building - :	Concrete F	Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	320	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.019675	0.019602	5.146986	1.56E-05
6	2024	Building - :	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
6	2024	Building - :	Concrete F	Fork Truck	Other Construction Ec	Diesel	100	0.59	320	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.013631	0.030597	12.40345	3.45E-05
6	2024	Building - :	Concrete F	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
6	2024	Building - :	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
6	2024	Building - :	Constructi	Survey Crew Trucks	Off-highway Trucks60	Diesel	600	0.59	10	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000204	0.000713	2.094668	5.56E-06
6	2024	Building - :	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks60	Diesel	600	0.59	4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	8.16E-05	0.000285	0.837867	2.22E-06
6	2024	Building - :	Exterior W	Fork Truck	Other Construction Ec	Diesel	100	0.59	240	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.010223	0.022947	9.302588	2.59E-05
6	2024	Building - :	Exterior W	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	240	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.00233	0.011404	2.482885	6.93E-06
6	2024	Building - :	Exterior W	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
6	2024	Building - :	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00049	0.001711	5.027203	1.33E-05
6	2024	Building - :	Interior Bu	Fork Truck	Other Construction Ec	Diesel	100	0.59	960	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.040892	0.09179	37.21035	0.000104
6	2024	Building - :	Interior Bu	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	960	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.009322	0.045616	9.931538	2.77E-05
6	2024	Building - :	Interior Bu	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002449	0.008557	25.13602	6.67E-05
6	2024	Building - :	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002449	0.008557	25.13602	6.67E-05
6	2024	Building - :	Roofing	High Lift	Rough Terrain Forklift	Diesel	100	0.59	120	0.529425	1.320666	596.0214	0.001641	0.079303	0.076924	0.047138	0.004132	0.010307	4.651592	1.28E-05
6	2024	Building - :	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklift	Diesel	75	0.21	120	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.001165	0.005702	1.241442	3.46E-06
6	2024	Building - :	Roofing	Material Deliveries	Off-highway Trucks60	Diesel	600	0.59	8	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000163	0.00057	1.675734	4.45E-06
6	2024	Building - :	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	12	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000245	0.000856	2.513602	6.67E-06
6	2024	Building - :	Security &	High Lift	Rough Terrain Forklift	Diesel	100	0.59	320	0.529425	1.320666	596.0214	0.001641	0.079303	0.076924	0.047138	0.011018	0.027485	12.40425	3.42E-05
6	2024	Building - :	Security &	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
6	2024	Building - :	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.098349	0.390469	530.9601	0.001447	0.020525	0.01991	0.02823	0.003356	0.013326	18.12047	4.94E-05
6	2024	Building - :	Structural	Fork Truck	Other Construction Ec	Diesel	100	0.59	120	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.005112	0.011474	4.651294	1.3E-05
6	2024	Building - :	Structural	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
6	2024	Building - :	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
1	2024	Demolitior	Building D	Bob Cat	Tractors/Loaders/Bac	Diesel	75	0.21	9936	2.427734	3.590307	694.7561	0.002129	0.303223	0.294126	0.425008	0.418793	0.619342	119.8481	0.000367
1	2024	Demolitior	Building D	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	9936	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.202807	0.708489	2081.262	0.005526
1	2024	Demolitior	Building D	Excavator with Bucket	Excavators175	Diesel	175	0.59	4968	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.047861	0.158618	303.5186	0.000807
1	2024	Demolitior	Building D	Generator Sets	Other Construction Ec	Diesel	40	0.43	4968	0.319365	2.565449	595.8652	0.001583	0.029353	0.028472	0.098284	0.030082	0.241646	56.12606	0.000149
1	2024	Demolitior	Building D	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	5796	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.118304	0.413285	1214.07	0.003224
2	2024	Access Ro:	Asphalt Pl:	Asphalt Paver	Pavers175	Diesel	175	0.59	1.998	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	4.03E-05	0.000102	0.122058	3.32E-07
2	2024	Access Ro:	Asphalt Pl:	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	7.195948	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000147	0.000513	1.507312	4E-06
2	2024	Access Ro:	Asphalt Pl:	Other General Equipment	Other Construction Ec	Diesel	175	0.43	3.996	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	8.55E-05	0.000269	0.177897	4.95E-07
2	2024	Access Ro:	Asphalt Pl:	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	1.998	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	4.08E-05	0.000142	0.418515	1.11E-06
2	2024	Access Ro:	Asphalt Pl:	Roller	Rollers100	Diesel	100	0.59	1.998	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	5.42E-05	0.000154	0.077454	2.11E-07
2	2024	Access Ro:	Asphalt Pl:	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	1.998	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.000114	0.000142	0.024078	7.58E-08
2	2024	Access Ro:	Asphalt Pl:	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	2.55744	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	6.22E-05	0.000157	0.024747	9.1E-08
2	2024	Access Ro:	Clearing a	Chain Saw	Other Construction Ec	Diesel	11	0.7	7.2	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.000151	0.000256	0.036286	1.33E-07
2	2024	Access Ro:	Clearing a	Chipper/Stump Grinder	Other Construction Ec	Diesel	100	0.43	7.2	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.000224	0.000502	0.203396	5.66E-07
2	2024	Access Ro:	Clearing a	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	9.6	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000196	0.000685	2.010881	5.34E-06
2	2024	Access Ro:	Concrete F	Air Compressor	Other Construction Ec	Diesel	100	0.43	5.328	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.000165	0.000371	0.150513	4.19E-07
2	2024	Access Ro:	Concrete F	Concrete Saws	Other Construction Ec	Diesel	40	0.59	5.328	0.319365	2.565449	595.8652	0.001583	0.029353	0.028472	0.098284	4.43E-05	0.000356	0.082591	2.19E-07
2	2024	Access Ro:	Concrete F	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	22.2	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000453	0.001583	4.650163	1.23E-05
2	2024	Access Ro:	Concrete F	Other General Equipment	Other Construction Ec	Diesel	175	0.43	10.656	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000228	0.000717	0.474392	1.32E-06
2	2024	Access Ro:	Concrete F	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	15.984	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000326	0.00114	3.348117	8.89E-06
2	2024	Access Ro:	Concrete F	Rubber Tired Loader	Tractors/Loaders/Bac	Diesel	175	0.59	5.328	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.000662	0.001181	0.379426	1.15E-06
2	2024	Access Ro:	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	5.328	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.000107	0.000271	0.325488	8.86E-07
2	2024	Access Ro:	Concrete F	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	5.328	1.495637	3.763971	595.1489	0.002188	0.171506	0.16636	0.352256	0.00013	0.000326	0.051557	1.9E-07
2	2024	Access Ro:	Curbing	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	48	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00098	0.003423	10.05441	2.67E-05
2	2024	Access Ro:	Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	48	0.177152	0.447389	536.7527	0.001462	0.045103	0.04375	0.027391	0.000968	0.002444	2.932325	7.99E-06
2	2024	Access Ro:	Curbing	Other General Equipment	Other Construction Ec	Diesel	175	0.43	48	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.001028	0.003232	2.1369	5.94E-06
2	2024	Access Ro:	Curbing	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	48	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00098	0.003423	10.05441	2.67E-05
2	2024	Access Ro:	Drainage -	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	38.72	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000561	0.001576	2.36551	6.36E-06
2	2024	Access Ro:	Drainage -	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	38.72	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00079	0.002761	8.110554	2.15E-05
2	2024	Access Ro:	Drainage -	Excavator	Excavators175	Diesel	175	0.59	38.72	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	0.000373	0.001236	2.365588	6.29E-06
2	2024	Access Ro:	Drainage -	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	38.72	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.004808	0.008579	2.757387	8.33E-06
2	2024	Access Ro:	Drainage -	Other General Equipment	Other Construction Ec	Diesel	175	0.43	38.72	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000829	0.002607	1.723766	4.79E-06
2	2024	Access Ro:	Drainage -	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	38.72	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00079	0.002761	8.110554	2.15E-05
2	2024	Access Ro:	Drainage -	Roller	Rollers100	Diesel	100	0.59	38.72	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.001051	0.00299	1.501008	4.09E-06
2	2024	Access Ro:	Drainage -	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	21.51111	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000439	0.001534	4.505864	1.2E-05
2	2024	Access Ro:	Drainage -	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	21.51111	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.002671	0.004766	1.531882	4.63E-06
2	2024	Access Ro:	Drainage -	Other General Equipment	Other Construction Ec	Diesel	175	0.43	21.51111	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000461	0.001448	0.957648	2.66E-06
2	2024	Access Ro:	Drainage -	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	21.51111	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000439	0.001534	4.505864	1.2E-05
2	2024	Access Ro:	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	21.51111	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.001323	0.001318	0.345992	1.05E-06
2	2024	Access Ro:	Dust Contr	Water Truck	Off-highway Trucks60	Diesel	600	0.59	2880	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.058785	0.205359	603.2644	0.001602
2	2024	Access Ro:	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	8.88	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000129	0.000361	0.542503	1.46E-06
2	2024	Access Ro:	Excavation	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	8.88	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000181	0.000633	1.860065	4.94E-06
2	2024	Access Ro:	Excavation	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	8.88	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000181	0.000633	1.860065	4.94E-06
2	2024	Access Ro:	Excavation	Roller	Rollers100	Diesel	100	0.59	4.098462	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000111	0.000317	0.15888	4.33E-07
2	2024	Access Ro:	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	6.66	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	9.65E-05	0.000271	0.406877	1.09E-06
2	2024	Access Ro:	Excavation	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	17.76	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000363	0.001266	3.72013	9.88E-06
2	2024	Access Ro:	Excavation	Excavator	Excavators175	Diesel	175	0.59	5.328	0.084645	0.280526	536.7934	0.001427	0.020501	0.019886	0.013129	5.13E-05	0.00017	0.325513	8.65E-07
2	2024	Access Ro:	Excavation	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	5.328	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000109	0.00038	1.116039	2.96E-06
2	2024	Access Ro:	Excavation	Roller	Rollers100	Diesel	100	0.59	5.328	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.000145	0.000411	0.206544	5.63E-07
2	2024	Access Ro:	Excavation	Scraper	Scrapers600	Diesel	600	0.59	6.66	0.231824	0.588102	536.729	0.001489	0.040091	0.038888	0.034682	0.000602	0.001528	1.394887	3.87E-06
2	2024	Access Ro:	Excavation	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	2.507294	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	3.63E-05	0.000102	0.153177	4.12E-07
2	2024	Access Ro:	Fencing	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	13.33333	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000272	0.000951	2.792891	7.42E-06
2	2024	Access Ro:	Fencing	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	53.33333	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001089	0.003803	11.17156	2.97E-05
2	2024	Access Ro:	Fencing	Other General Equipment	Other Construction Ec	Diesel	175	0.43	53.33333	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.001142	0.003591	2.374333	6.6E-06
2	2024	Access Ro:	Fencing	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	53.33333	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001089	0.003803	11.17156	2.97E-05
2	2024	Access Ro:	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	53.33333	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.003039	0.003798	0.642727	2.02E-06
2	2024	Access Ro:	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	53.33333	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.003279	0.003267	0.857831	2.59E-06
2	2024	Access Ro:	Grading	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	2.9548	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	4.28E-05	0.00012	0.180517	4.85E-07
2	2024	Access Ro:	Grading	Grader	Graders300	Diesel	300	0.59	2.9548	0.070474	0.225529	536.7797	0.001435	0.016427	0.015934	0.017337	4.06E-05	0.00013	0.30946	8.27E-07
2	2024	Access Ro:	Grading	Roller	Rollers100	Diesel	100	0.59	2.9548	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	8.02E-05	0.000228	0.114545	3.12E-07
2	2024	Access Ro:	Hydroseec	Hydroseeder	Other Construction Ec	Diesel	600	0.59	2.662	0.674104	1.451475	536.5624	0.00162	0.106831	0.103626	0.092216	0.0007	0.001508	0.557363	1.68E-06
2	2024	Access Ro:	Hydroseec	Off-Road Truck	Off-highway Trucks60	Diesel	600	0.59	2.662	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	5.43E-05	0.00019	0.557601	1.48E-06
2	2024	Access Ro:	Markings	Flatbed Truck	Off-highway Trucks60	Diesel	600	0.59	32.91429	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000672	0.002347	6.89445	1.83E-05
2	2024	Access Ro:	Markings	Other General Equipment	Other Construction Ec	Diesel	175	0.43	32.91429	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000705	0.002216	1.465303	4.08E-06
2	2024	Access Ro:	Markings	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	32.91429	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000672	0.002347	6.89445	1.83E-05
2	2024	Access Ro:	Sidewalks	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	96	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001959	0.006845	20.10881	5.34E-05
2	2024	Access Ro:	Sidewalks	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	96	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001959	0.006845	20.10881	5.34E-05
2	2024	Access Ro:	Sidewalks	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	96	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001959	0.006845	20.10881	5.34E-05
2	2024	Access Ro:	Sidewalks	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	96	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.005902	0.005881	1.544096	4.67E-06

2	2024	Access Ro	Sidewalks	Vibratory Compactor	Plate Compactors6	Diesel	6	0.43	96	2.543503	4.195136	588.0165	0.002162	0.257447	0.249724	0.820403	0.000694	0.001145	0.160541	5.9E-07
2	2024	Access Ro	Soil Erosio	Other General Equipment	Other Construction E	Diesel	175	0.43	2.4	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	5.14E-05	0.000162	0.106845	2.97E-07
2	2024	Access Ro	Soil Erosio	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	4.8	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	9.8E-05	0.000342	1.005441	2.67E-06
2	2024	Access Ro	Soil Erosio	Pumps	Other Construction E	Diesel	11	0.43	2.4	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	3.09E-05	5.24E-05	0.00743	2.73E-08
2	2024	Access Ro	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	2.4	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.000148	0.000147	0.038602	1.17E-07
2	2024	Access Ro	Street Ligh	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	32	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000653	0.002282	6.702937	1.78E-05
2	2024	Access Ro	Street Ligh	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	32	1.090944	1.946746	625.6994	0.001889	0.241644	0.234395	0.290885	0.003973	0.00709	2.278832	6.88E-06
2	2024	Access Ro	Street Ligh	Other General Equipment	Other Construction E	Diesel	175	0.43	32	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.000685	0.002155	1.4246	3.96E-06
2	2024	Access Ro	Street Ligh	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	32	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000653	0.002282	6.702937	1.78E-05
2	2024	Access Ro	Street Ligh	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	32	3.281564	4.101785	694.13	0.002185	0.457728	0.443996	0.633997	0.001823	0.002279	0.385636	1.21E-06
2	2024	Access Ro	Street Ligh	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	32	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.001967	0.00196	0.514699	1.56E-06
2	2024	Access Ro	Subbase P	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	3.365053	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	4.88E-05	0.000137	0.20558	5.53E-07
2	2024	Access Ro	Subbase P	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	23.68	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000483	0.001689	4.960174	1.32E-05
2	2024	Access Ro	Subbase P	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	3.365053	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	6.87E-05	0.00024	0.704867	1.87E-06
2	2024	Access Ro	Subbase P	Roller	Rollers100	Diesel	100	0.59	3.278769	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	8.9E-05	0.000253	0.127104	3.46E-07
2	2024	Access Ro	Topsoil Pla	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	6.566667	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	9.52E-05	0.000267	0.401175	1.08E-06
2	2024	Access Ro	Topsoil Pla	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	6.566667	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000134	0.000468	1.375499	3.65E-06
2	2024	Access Ro	Topsoil Pla	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	6.566667	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000134	0.000468	1.375499	3.65E-06
2	2024	Access Ro	Tree Plant	Flatbed Truck	Off-highway Trucks60	Diesel	600	0.59	33120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.676023	2.361629	6937.54	0.01842
2	2024	Access Ro	Tree Plant	Other General Equipment	Other Construction E	Diesel	175	0.43	33120	0.258085	0.811691	536.6978	0.001493	0.062621	0.060743	0.046238	0.709033	2.229945	1474.461	0.004101
2	2024	Access Ro	Tree Plant	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	33120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.676023	2.361629	6937.54	0.01842
2	2024	Access Ro	Tree Plant	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	33120	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	2.036328	2.02879	532.7131	0.00161
3	2024	Building -	Concrete F	Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	320	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.019675	0.019602	5.146986	1.56E-05
3	2024	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
3	2024	Building -	Concrete F	Fork Truck	Other Construction E	Diesel	100	0.59	320	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.013631	0.030597	12.40345	3.45E-05
3	2024	Building -	Concrete F	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
3	2024	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
3	2024	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks60	Diesel	600	0.59	10	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000204	0.000713	2.094668	5.56E-06
3	2024	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks60	Diesel	600	0.59	4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	8.16E-05	0.000285	0.837867	2.22E-06
3	2024	Building -	Exterior W	Fork Truck	Other Construction E	Diesel	100	0.59	240	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.010223	0.022947	9.302588	2.59E-05
3	2024	Building -	Exterior W	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	240	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.00233	0.011404	2.482885	6.93E-06
3	2024	Building -	Exterior W	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
3	2024	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00049	0.001711	5.027203	1.33E-05
3	2024	Building -	Interior Bu	Fork Truck	Other Construction E	Diesel	100	0.59	960	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.040892	0.09179	37.21035	0.000104
3	2024	Building -	Interior Bu	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	960	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.009322	0.045616	9.931538	2.77E-05
3	2024	Building -	Interior Bu	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002449	0.008557	25.13602	6.67E-05
3	2024	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002449	0.008557	25.13602	6.67E-05
3	2024	Building -	Roofing	High Lift	Rough Terrain Forklift	Diesel	100	0.59	120	0.529425	1.320666	596.0214	0.001641	0.079303	0.076924	0.047138	0.004132	0.010307	4.651592	1.28E-05
3	2024	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklift	Diesel	75	0.21	120	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.001165	0.005702	1.241442	3.46E-06
3	2024	Building -	Roofing	Material Deliveries	Off-highway Trucks60	Diesel	600	0.59	8	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000163	0.00057	1.675734	4.45E-06
3	2024	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	12	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000245	0.000856	2.513602	6.67E-06
3	2024	Building -	Security &	High Lift	Rough Terrain Forklift	Diesel	100	0.59	320	0.529425	1.320666	596.0214	0.001641	0.079303	0.076924	0.047138	0.011018	0.027485	12.40425	3.42E-05
3	2024	Building -	Security &	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
3	2024	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.098349	0.390469	530.9601	0.001447	0.020525	0.01991	0.02823	0.003356	0.013326	18.12047	4.94E-05
3	2024	Building -	Structural	Fork Truck	Other Construction E	Diesel	100	0.59	120	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.005112	0.011474	4.651294	1.3E-05
3	2024	Building -	Structural	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
3	2024	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
4	2024	Building -	Concrete F	Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	320	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.019675	0.019602	5.146986	1.56E-05
4	2024	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
4	2024	Building -	Concrete F	Fork Truck	Other Construction E	Diesel	100	0.59	320	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.013631	0.030597	12.40345	3.45E-05
4	2024	Building -	Concrete F	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
4	2024	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
4	2024	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks60	Diesel	600	0.59	10	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000204	0.000713	2.094668	5.56E-06
4	2024	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks60	Diesel	600	0.59	4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	8.16E-05	0.000285	0.837867	2.22E-06
4	2024	Building -	Exterior W	Fork Truck	Other Construction E	Diesel	100	0.59	240	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.010223	0.022947	9.302588	2.59E-05
4	2024	Building -	Exterior W	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	240	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.00233	0.011404	2.482885	6.93E-06
4	2024	Building -	Exterior W	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
4	2024	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00049	0.001711	5.027203	1.33E-05
4	2024	Building -	Interior Bu	Fork Truck	Other Construction E	Diesel	100	0.59	960	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.040892	0.09179	37.21035	0.000104
4	2024	Building -	Interior Bu	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	960	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.009322	0.045616	9.931538	2.77E-05
4	2024	Building -	Interior Bu	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002449	0.008557	25.13602	6.67E-05
4	2024	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	120	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.002449	0.008557	25.13602	6.67E-05
4	2024	Building -	Roofing	High Lift	Rough Terrain Forklift	Diesel	100	0.59	120	0.529425	1.320666	596.0214	0.001641	0.079303	0.076924	0.047138	0.004132	0.010307	4.651592	1.28E-05
4	2024	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklift	Diesel	75	0.21	120	0.559297	2.73688	595.8792	0.001663	0.06081	0.058986	0.092933	0.001165	0.005702	1.241442	3.46E-06
4	2024	Building -	Roofing	Material Deliveries	Off-highway Trucks60	Diesel	600	0.59	8	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000163	0.00057	1.675734	4.45E-06
4	2024	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	12	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000245	0.000856	2.513602	6.67E-06
4	2024	Building -	Security &	High Lift	Rough Terrain Forklift	Diesel	100	0.59	320	0.529425	1.320666	596.0214	0.001641	0.079303	0.076924	0.047138	0.011018	0.027485	12.40425	3.42E-05
4	2024	Building -	Security &	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
4	2024	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.098349	0.390469	530.9601	0.001447	0.020525	0.01991	0.02823	0.003356	0.013326	18.12047	4.94E-05
4	2024	Building -	Structural	Fork Truck	Other Construction E	Diesel	100	0.59	120	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.005112	0.011474	4.651294	1.3E-05
4	2024	Building -	Structural	Tool Truck	Off-highway Trucks60	Diesel	600	0.59	60	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001225	0.004278	12.56801	3.34E-05
4	2024	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
5	2024	Site Work	Constructi	Survey Crew Trucks	Off-highway Trucks60	Diesel	600	0.59	10	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000204	0.000713	2.094668	5.56E-06
5	2024	Site Work	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks60	Diesel	600	0.59	4	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	8.16E-05	0.000285	0.837867	2.22E-06
5	2024	Site Work	Site Cleari	Bulldozer	Crawler Tractor/Doze	Diesel	175	0.59	40	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.00058	0.001628	2.443708	6.57E-06
5	2024	Site Work	Site Cleari	Chain Saws	Other Construction E	Diesel	11	0.7	40	2.473256	4.183481	593.756	0.002183	0.240901	0.233674	0.83744	0.00084	0.00142	0.201588	7.41E-07
5	2024	Site Work	Site Cleari	Flat Bed or Dump Trucks	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
5	2024	Site Work	Site Cleari	Front Loader	Tractors/Loaders/Bac	Diesel	100	0.21	40	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.002459	0.00245	0.643373	1.94E-06
5	2024	Site Work	Site Cleari	Grub the site down 2'-0	Other Construction E	Diesel	40	0.59	40	0.319365	2.565449	595.8652	0.001583	0.029353	0.028472	0.098284	0.000332	0.00267	0.62005	1.65E-06
5	2024	Site Work	Site Cleari	Log Chipper	Other Construction E	Diesel	100	0.43	40	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.001242	0.002787	1.129975	3.15E-06
5	2024	Site Work	Site Cleari	Mulcher	Other Construction E	Diesel	100	0.43	40	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.001242	0.002787	1.129975	3.15E-06
5	2024	Site Work	Site Cleari	Ten Wheelers	Off-highway Trucks60	Diesel	600	0.59	40	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000816	0.002852	8.378672	2.22E-05
5	2024	Site Work	Site Cleari	Tractor	Tractors/Loaders/Bac	Diesel	100	0.21	80	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.004919	0.0049	1.286747	3.89E-06
5	2024	Site Work	Site Resto	Bob Cat	Tractors/Loaders/Bac	Diesel	75	0.21	24	2.427734	3.590307	694.7561	0.002129	0.303223	0.294126	0.425008	0.001012	0.001496	0.289488	8.87E-07
5	2024	Site Work	Site Resto	Concrete Ready Mix Trucks	Off-highway Trucks60	Diesel	600	0.59	24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00049	0.001711	5.027203	1.33E-05
5	2024	Site Work	Site Resto	Tractor Trailer with Boom Hoist- Delivery	Off-highway Trucks60	Diesel	600	0.59	24	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.00049	0.001711	5.027203	1.33E-05
5	2024	Site Work	Site Resto	Compacting Equipment	Plate Compactors6	Diesel	6	0.43	24	2.543503	4.195136	588.0165	0.002162	0.257447	0.249724	0.820403	0.000174	0.000286	0.040135	1.48E-07
5	2024	Site Work	Site Resto	Small Dozer	Crawler Tractor/Doze	Diesel	175	0.59	24	0.127318	0.357586	536.7756	0.001443	0.032211	0.031245	0.019137	0.000348	0.000977	1.466225	3.94E-06
5	2024	Site Work	Site Resto	Forktruck (Hoist)	Other Construction E	Diesel	100	0.59	80	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.003408	0.007649	3.100863	8.63E-06
5	2024	Site Work	Site Resto	Roller	Rollers100	Diesel	100	0.59	40	0.417356	1.187531	596.0587	0.001624	0.064693	0.062752	0.034547	0.001086	0.003089	1.550628	4.23E-06
5	2024	Site Work	Site Resto	Seed Truck Spreader	Off-highway Trucks60	Diesel	600	0.59	16	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000327	0.001141	3.351469	8.9E-06
5	2024	Site Work	Site Resto	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	80	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.001633	0.005704	16.75734	4.45E-05
5	2024	Site Work	Undergrou	Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	120	2.656022	2.64619	694.8278	0.0021	0.350932	0.340404	0.402188	0.007378	0.007351	1.93012	5.83E-06
5	2024	Site Work	Undergrou	Fork Truck	Other Construction E	Diesel	100	0.59	60	0.654952	1.47016	595.9832	0.00166	0.098026	0.095085	0.060399	0.002556	0.005737	2.325647	6.48E-06
5	2024	Site Work	Undergrou	Tractor Trailer- Material Delivery	Off-highway Trucks60	Diesel	600	0.59	30	0.052307	0.182731	536.7912	0.001425	0.011908	0.01155	0.013356	0.000612	0.002139	6.284004	1.67E-05
																Totals	**6.495923**	**15.51591**	**27254.13**	**0.072942**

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario I	Year	Project	Equipmen	Equipment Category	On-road Activity	Lookup	Fuel	Roadway T	Round Trip	Distance f	Number o	Number o	Number o	Project Le	Project Wi	Project Ar	Building H	Open Spac	Number o	Activity Ra
1	2024	Taxiways	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	3300	30	--	--	--	--	--
1	2024	Taxiways	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	2	--	258	3300	30	--	--	--	--	--
1	2024	Taxiways	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	3300	30	--	--	--	--	--
1	2024	Taxiways	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	3300	30	--	--	--	--	--
1	2024	Taxiways	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	497.2	497.2	258	--	--	--	--	--	--	--
2	2024	Terminal A	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	716	400	--	--	--	--	--
2	2024	Terminal A	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	4	--	258	716	400	--	--	--	--	--
2	2024	Terminal A	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	716	400	--	--	--	--	--

2	2024	Terminal A	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	2	--	258	716	400	--	--	--	--	--
2	2024	Terminal A	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	76	76	258	--	--	--	--	--	--	--
3	2024	Terminal A	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	400	776	--	--	--	--	--
3	2024	Terminal A	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	4	--	258	400	776	--	--	--	--	--
3	2024	Terminal A	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	400	776	--	--	--	--	--
3	2024	Terminal A	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	2	--	258	400	776	--	--	--	--	--
3	2024	Terminal A	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	374	374	258	--	--	--	--	--	--	--
4	2024	Taxiway E	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	2440	44	--	--	--	--	--
4	2024	Taxiway E	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	2	--	258	2440	44	--	--	--	--	--
4	2024	Taxiway E	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	2440	44	--	--	--	--	--
4	2024	Taxiway E	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	2440	44	--	--	--	--	--
4	2024	Taxiway E	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	125.4	125.4	258	--	--	--	--	--	--	--
5	2024	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--
5	2024	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--
5	2024	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	1936	1936	258	--	--	--	--	--	--	--
5	2024	Building -	Tractor Tra	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.0016
6	2024	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	--
6	2024	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	--
6	2024	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	2079	2079	193	--	--	--	--	--	--	--
6	2024	Building -	Tractor Tra	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	0.0016
1	2024	Demolitio	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	193			414000	35	35	--	--
1	2024	Demolitio	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	110	110	193	--	--	--	--	--	--	--
2	2024	Access Ro	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	1200	12	--	--	--	--	--
2	2024	Access Ro	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	1200	12	--	--	--	--	--
2	2024	Access Ro	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	1200	12	--	--	--	--	--
2	2024	Access Ro	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	1200	12	--	--	--	--	--
2	2024	Access Ro	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	86	86	258	--	--	--	--	--	--	--
3	2024	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	--
3	2024	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	--
3	2024	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	264	264	193	--	--	--	--	--	--	--
3	2024	Building -	Tractor Tra	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	193	--	--	10000	--	--	--	0.0016
4	2024	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--
4	2024	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--
4	2024	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	198	198	129	--	--	--	--	--	--	--
4	2024	Building -	Tractor Tra	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	0.0016
5	2024	Site Work	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--
5	2024	Site Work	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--
5	2024	Site Work	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	660	660	129	--	--	--	--	--	--	--
5	2024	Site Work	Tractor Tra	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	0.008

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario II	Year	Project	Fugitive Sc	Number of Months	CO	NOx	SO2	PM10	VOC
1	2024	Taxiways	Asphalt Dr	12	0	0	0	0	0.05
1	2024	Taxiways	Asphalt St	12	0.23955	0.01495	0.002752	0.0164	0.0074
1	2024	Taxiways	Material M	12	0	0	0	0.02995	0
1	2024	Taxiways	Material M	12	0	0	0	0.0963	0
1	2024	Taxiways	Soil Handli	12	0	0	0	0.028	0
1	2024	Taxiways	Unstabilize	12	0	0	0	3.99E-08	0
2	2024	Terminal A	Asphalt Dr	12	0	0	0	0	0.05
2	2024	Terminal A	Asphalt St	12	0.69295	0.04325	0.00795	0.04745	0.02145
2	2024	Terminal A	Concrete M	12	0	0	0	0.24505	0
2	2024	Terminal A	Material M	12	0	0	0	0.0479	0
2	2024	Terminal A	Material M	12	0	0	0	0.152	0
2	2024	Terminal A	Soil Handli	12	0	0	0	0.08105	0
2	2024	Terminal A	Unstabilize	12	0	0	0	1.16E-07	0
3	2024	Terminal A	Asphalt Dr	12	0	0	0	0	0.05
3	2024	Terminal A	Asphalt St	12	0.75105	0.0469	0.00865	0.05145	0.02325
3	2024	Terminal A	Concrete M	12	0	0	0	0.2656	0
3	2024	Terminal A	Material M	12	0	0	0	0.0479	0
3	2024	Terminal A	Material M	12	0	0	0	0.15245	0
3	2024	Terminal A	Soil Handli	12	0	0	0	0.08785	0
3	2024	Terminal A	Unstabilize	12	0	0	0	1.25E-07	0
4	2024	Taxiway E	Asphalt Dr	12	0	0	0	0	0.05
4	2024	Taxiway E	Asphalt St	12	0.25975	0.0162	0.002985	0.0178	0.00805
4	2024	Taxiway E	Concrete M	12	0	0	0	0.09185	0
4	2024	Taxiway E	Material M	12	0	0	0	0.02995	0
4	2024	Taxiway E	Material M	12	0	0	0	0.0954	0
4	2024	Taxiway E	Soil Handli	12	0	0	0	0.0304	0
4	2024	Taxiway E	Unstabilize	12	0	0	0	4.33E-08	0
5	2024	Building -	Concrete M	12	0	0	0	0.00855	0
5	2024	Building -	Material M	12	0	0	0	0.01195	0
5	2024	Building -	Material M	12	0	0	0	0.03535	0
6	2024	Building -	Concrete M	9	0	0	0	0.00855	0
6	2024	Building -	Material M	9	0	0	0	0.00895	0
6	2024	Building -	Material M	9	0	0	0	0.02645	0
2	2024	Access Ro	Asphalt Dr	12	0	0	0	0	0.0475
2	2024	Access Ro	Asphalt St	12	0.03485	0.002176	0.000401	0.002386	0.001079
2	2024	Access Ro	Concrete M	12	0	0	0	0.0123	0
2	2024	Access Ro	Material M	12	0	0	0	0.02395	0
2	2024	Access Ro	Material M	12	0	0	0	0.073	0
2	2024	Access Ro	Soil Handli	12	0	0	0	0.004076	0
2	2024	Access Ro	Unstabilize	12	0	0	0	5.81E-09	0
3	2024	Building -	Concrete M	9	0	0	0	0.00855	0
3	2024	Building -	Material M	9	0	0	0	0.00895	0
3	2024	Building -	Material M	9	0	0	0	0.02645	0
4	2024	Building -	Concrete M	6	0	0	0	0.00855	0
4	2024	Building -	Material M	6	0	0	0	0.006	0
4	2024	Building -	Material M	6	0	0	0	0.01765	0
5	2024	Site Work	Material M	6	0	0	0	0.006	0
5	2024	Site Work	Material M	6	0	0	0	0.018	0
5	2024	Site Work	Soil Handli	6	0	0	0	0.002831	0
5	2024	Site Work	Unstabilize	6	0	0	0	2.02E-09	0
				Totals	1.97815	0.123476	0.022737	1.933243	0.308729

2024 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2024	NonRoad	6.495923	15.51591	0.072942339	1.189925837	1.154227	1.254158	27254.13	--	--	
2024	OnRoad	49.45708	2.036828	0.036389226	0.05161262	0.046211	1.249178	5673.515	0.143606	0.031344	
2024	Fugitive	1.97815	0.123476	0.022737	1.933242832	--	0.308729	--	--	--	
2024	TOTAL	57.93115	17.67622	0.132068565	3.174781289	1.200438	2.812065	32927.65	0.143606	0.031344	32939.98

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)

ns (TPY)

PM10 (tpy	PM2.5 (tp)	VOC Exhaust (tpy)
7.05E-05	6.84E-05	4.28E-05
0.00023	0.000223	0.000258
0.000143	0.000138	0.000105
6.38E-05	6.19E-05	7.16E-05
5.78E-05	5.61E-05	3.09E-05
0.000109	0.000106	0.000151
4.9E-05	4.76E-05	0.000101
7.36E-05	7.14E-05	0.000256
0.000167	0.000162	0.000103
0.000223	0.000216	0.00025
0.000388	0.000377	0.000231
0.000492	0.000477	0.000552
0.000247	0.00024	0.000158
0.002913	0.002826	0.003507
0.00055	0.000534	0.000406
0.000492	0.000477	0.000552
0.000446	0.000432	0.000238
0.000273	0.000265	0.000307
0.001618	0.00157	0.001948
0.000306	0.000296	0.000226
0.000273	0.000265	0.000307
0.000478	0.000464	0.000548
0.013382	0.012981	0.01501
0.000224	0.000217	0.000133
0.000284	0.000275	0.000318
0.000284	0.000275	0.000318
0.000119	0.000115	6.33E-05
0.000168	0.000163	9.97E-05
0.000567	0.00055	0.000636
8.55E-05	8.29E-05	5.47E-05
0.00017	0.000165	0.000191
0.000154	0.000149	8.23E-05
0.000716	0.000695	0.00062
6.32E-05	6.13E-05	3.75E-05
0.00017	0.000165	0.000191
0.000681	0.000661	0.000764
0.000762	0.000739	0.000563
0.000681	0.000661	0.000764
0.001166	0.001131	0.001614
0.001191	0.001156	0.001365
5.39E-05	5.23E-05	3.2E-05
4.71E-05	4.57E-05	4.97E-05
6.18E-05	6E-05	3.3E-05
0.000552	0.000535	0.000476
6.15E-05	5.97E-05	6.9E-05
0.000206	0.0002	0.000231
0.001221	0.001184	0.00147
0.000231	0.000224	0.00017
0.000206	0.0002	0.000231
0.000353	0.000342	0.000489
0.000361	0.00035	0.000413
0.001051	0.00102	0.001179
0.001175	0.00114	0.000868
0.001051	0.00102	0.001179
6.23E-05	6.05E-05	4.6E-05
0.000112	0.000108	0.000125
1.51E-05	1.46E-05	5.24E-05
9.75E-05	9.46E-05	0.000112
8.48E-05	8.23E-05	5.04E-05
0.000756	0.000734	0.000848
0.000107	0.000104	0.000121
9.48E-05	9.2E-05	5.06E-05
0.00012	0.000116	7.11E-05
0.000152	0.000147	0.00017
0.000152	0.000147	0.00017
0.000204	0.000198	0.000124
0.000665	0.000645	0.000746
0.000413	0.0004	0.000305
0.000185	0.000179	0.000207
0.000167	0.000162	8.93E-05
0.000316	0.000306	0.000437
0.000142	0.000138	0.000291
0.000167	0.000162	0.00058
0.000379	0.000368	0.000234
0.000506	0.00049	0.000567
0.000492	0.000478	0.000303
8.09E-05	7.85E-05	0.000271
0.002052	0.00199	0.002301
0.001101	0.001068	0.000813
0.001477	0.001433	0.001657
0.002914	0.002827	0.003508
0.000544	0.000528	0.00033

0.000295	0.000287	0.000607
8.52E-05	8.26E-05	5.06E-05
0.000108	0.000105	0.000121
5.42E-05	5.26E-05	3.47E-05
0.000639	0.00062	0.000769
0.000121	0.000117	8.91E-05
0.000108	0.000105	0.000121
9.77E-05	9.48E-05	5.22E-05
6E-05	5.82E-05	6.73E-05
0.000355	0.000344	0.000427
6.7E-05	6.5E-05	4.95E-05
6E-05	5.82E-05	6.73E-05
0.000105	0.000102	0.00012
0.013382	0.012981	0.01501
0.000647	0.000628	0.000385
0.000821	0.000796	0.00092
0.000821	0.000796	0.00092
0.000343	0.000333	0.000183
0.000486	0.000471	0.000289
0.001641	0.001592	0.001841
0.000247	0.00024	0.000158
0.000492	0.000478	0.000552
0.000446	0.000432	0.000238
0.002072	0.00201	0.001793
0.000183	0.000177	0.000109
3.7E-05	3.59E-05	4.15E-05
0.000148	0.000143	0.000166
0.000165	0.00016	0.000122
0.000148	0.000143	0.000166
0.000253	0.000245	0.00035
0.000259	0.000251	0.000296
0.000121	0.000117	7.2E-05
0.000106	0.000103	0.000112
0.000139	0.000135	7.42E-05
0.001241	0.001204	0.001071
0.000138	0.000134	0.000155
6.91E-05	6.71E-05	7.76E-05
0.000409	0.000397	0.000493
7.73E-05	7.5E-05	5.71E-05
6.91E-05	6.71E-05	7.76E-05
0.000118	0.000115	0.000164
0.000121	0.000117	0.000139
0.003042	0.002951	0.003412
0.0034	0.003298	0.002511
0.003042	0.002951	0.003412
0.000394	0.000382	0.000442
0.00044	0.000427	0.000325
0.000394	0.000382	0.000442
0.000141	0.000137	0.000104
0.000253	0.000245	0.000284
3.42E-05	3.31E-05	0.000119
0.000221	0.000214	0.000253
0.000245	0.000238	0.000146
0.002188	0.002123	0.002455
0.000311	0.000302	0.000349
0.000274	0.000266	0.000147
0.000269	0.000261	0.00016
0.000341	0.000331	0.000383
0.000341	0.000331	0.000383
0.000221	0.000214	0.000134
0.000721	0.000699	0.000808
0.000447	0.000434	0.00033
0.0002	0.000194	0.000224
0.000181	0.000176	9.68E-05
0.000342	0.000332	0.000474
0.000154	0.000149	0.000316
0.000182	0.000176	0.000631
0.000413	0.0004	0.000254
0.00055	0.000534	0.000617
0.000534	0.000518	0.000329
8.77E-05	8.51E-05	0.000294
0.002224	0.002157	0.002494
0.001193	0.001157	0.000881
0.001601	0.001553	0.001796
0.003159	0.003064	0.003802
0.00059	0.000572	0.000358
0.00032	0.000311	0.000658
4.81E-05	4.67E-05	2.86E-05
6.1E-05	5.91E-05	6.84E-05
3.06E-05	2.97E-05	1.96E-05
0.000361	0.00035	0.000434
6.82E-05	6.61E-05	5.03E-05
6.1E-05	5.91E-05	6.84E-05
5.52E-05	5.35E-05	2.95E-05
3.39E-05	3.29E-05	3.8E-05
0.0002	0.000194	0.000241
3.79E-05	3.67E-05	2.8E-05
3.39E-05	3.29E-05	3.8E-05
5.92E-05	5.74E-05	6.79E-05
0.013382	0.012981	0.01501
0.000702	0.000681	0.000417
0.000889	0.000863	0.000998
0.000889	0.000863	0.000998
0.000372	0.000361	0.000198
0.000526	0.000511	0.000313
0.001779	0.001725	0.001995
0.000268	0.00026	0.000172
0.000534	0.000518	0.000599
0.000483	0.000469	0.000258
0.002246	0.002179	0.001943
0.000198	0.000192	0.000118
2.07E-05	2E-05	2.32E-05
8.26E-05	8.01E-05	9.27E-05
9.23E-05	8.96E-05	6.82E-05
8.26E-05	8.01E-05	9.27E-05
0.000141	0.000137	0.000196
0.000144	0.00014	0.000166
0.000131	0.000127	7.79E-05
0.000115	0.000111	0.000121

0.000151	0.000146	8.04E-05
0.001343	0.001303	0.00116
0.00015	0.000145	0.000168
7.29E-05	7.07E-05	8.17E-05
0.000431	0.000418	0.000519
8.14E-05	7.9E-05	6.01E-05
7.29E-05	7.07E-05	8.17E-05
0.000125	0.000121	0.000173
0.000127	0.000124	0.000146
0.003297	0.003198	0.003698
0.003685	0.003575	0.002721
0.003297	0.003198	0.003698
0.000427	0.000414	0.000479
0.000477	0.000463	0.000352
0.000427	0.000414	0.000479
0.000154	0.000149	0.000114
0.000275	0.000267	0.000309
3.72E-05	3.61E-05	0.000129
0.00024	0.000233	0.000276
0.000266	0.000258	0.000158
0.002372	0.002301	0.00266
0.000337	0.000327	0.000378
0.000297	0.000288	0.000159
0.000291	0.000283	0.000173
0.000369	0.000358	0.000414
0.000369	0.000358	0.000414
7.65E-05	7.42E-05	4.64E-05
0.000249	0.000242	0.00028
0.000155	0.00015	0.000114
6.92E-05	6.71E-05	7.76E-05
6.27E-05	6.08E-05	3.35E-05
0.000118	0.000115	0.000164
5.32E-05	5.16E-05	0.000109
7.36E-05	7.14E-05	0.000256
0.000167	0.000162	0.000103
0.000223	0.000216	0.00025
0.000185	0.000179	0.000114
3.03E-05	2.94E-05	0.000102
0.000769	0.000746	0.000863
0.000413	0.0004	0.000305
0.000554	0.000537	0.000621
0.001092	0.00106	0.001315
0.000204	0.000198	0.000124
0.000111	0.000107	0.000228
0.000287	0.000279	0.000171
0.000364	0.000353	0.000409
0.000183	0.000177	0.000117
0.002156	0.002092	0.002596
0.000407	0.000395	0.000301
0.000364	0.000353	0.000409
0.00033	0.00032	0.000176
0.000202	0.000196	0.000227
0.001198	0.001162	0.001442
0.000226	0.000219	0.000167
0.000202	0.000196	0.000227
0.000354	0.000343	0.000406
0.013382	0.012981	0.01501
0.000243	0.000235	0.000144
0.000308	0.000298	0.000345
0.000308	0.000298	0.000345
0.000129	0.000125	6.87E-05
0.000182	0.000177	0.000108
0.000615	0.000597	0.00069
9.27E-05	8.99E-05	5.94E-05
0.000185	0.000179	0.000207
0.000167	0.000162	8.92E-05
0.000777	0.000754	0.000672
6.85E-05	6.65E-05	4.07E-05
0.000126	0.000122	0.000141
0.000504	0.000489	0.000565
0.000563	0.000546	0.000416
0.000504	0.000489	0.000565
0.000862	0.000836	0.001194
0.000881	0.000855	0.00101
5.38E-05	5.22E-05	3.2E-05
4.71E-05	4.57E-05	4.97E-05
6.18E-05	5.99E-05	3.3E-05
0.000552	0.000535	0.000476
6.15E-05	5.96E-05	6.9E-05
0.000154	0.000149	0.000173
0.000911	0.000884	0.001096
0.000172	0.000167	0.000127
0.000154	0.000149	0.000173
0.000263	0.000255	0.000365
0.000269	0.000261	0.000308
0.00114	0.001106	0.001279
0.001275	0.001236	0.000941
0.00114	0.001106	0.001279
6.23E-05	6.05E-05	4.6E-05
0.000112	0.000108	0.000125
1.51E-05	1.46E-05	5.24E-05
9.75E-05	9.46E-05	0.000112
9.2E-05	8.92E-05	5.46E-05
0.00082	0.000796	0.00092
0.000117	0.000113	0.000131
0.000103	9.98E-05	5.49E-05
0.00012	0.000116	7.11E-05
0.000152	0.000147	0.00017
0.000152	0.000147	0.00017
0.0026	0.002522	0.002979
0.000279	0.00027	0.000313
0.00204	0.001979	0.001257
0.000372	0.000361	0.000417
7.43E-05	7.21E-05	8.34E-05
4.65E-05	4.51E-05	5.21E-05
1.86E-05	1.8E-05	2.08E-05
0.00153	0.001484	0.000943
0.000253	0.000246	0.000387
0.000279	0.00027	0.000313

0.000112	0.000108	0.000125
0.00612	0.005937	0.003771
0.001014	0.000983	0.001549
0.000558	0.000541	0.000625
0.000558	0.000541	0.000625
0.000619	0.0006	0.000368
0.000127	0.000123	0.000194
3.72E-05	3.61E-05	4.17E-05
5.58E-05	5.41E-05	6.25E-05
0.00165	0.001601	0.000981
0.000372	0.000361	0.000417
0.0007	0.000679	0.000963
0.000765	0.000742	0.000471
0.000279	0.00027	0.000313
7.43E-05	7.21E-05	8.34E-05
0.0026	0.002522	0.002979
0.000279	0.00027	0.000313
0.00204	0.001979	0.001257
0.000372	0.000361	0.000417
7.43E-05	7.21E-05	8.34E-05
4.65E-05	4.51E-05	5.21E-05
1.86E-05	1.8E-05	2.08E-05
0.00153	0.001484	0.000943
0.000253	0.000246	0.000387
0.000279	0.00027	0.000313
0.000112	0.000108	0.000125
0.00612	0.005937	0.003771
0.001014	0.000983	0.001549
0.000558	0.000541	0.000625
0.000558	0.000541	0.000625
0.000619	0.0006	0.000368
0.000127	0.000123	0.000194
3.72E-05	3.61E-05	4.17E-05
5.58E-05	5.41E-05	6.25E-05
0.00165	0.001601	0.000981
0.000372	0.000361	0.000417
0.0007	0.000679	0.000963
0.000765	0.000742	0.000471
0.000279	0.00027	0.000313
7.43E-05	7.21E-05	8.34E-05
0.052307	0.050738	0.073315
0.046168	0.044783	0.051784
0.011592	0.011244	0.007424
0.002765	0.002682	0.009258
0.026932	0.026124	0.030207
1.03E-05	9.95E-06	6.23E-06
3.34E-05	3.24E-05	3.75E-05
2.08E-05	2.01E-05	1.53E-05
9.28E-06	9.01E-06	1.04E-05
8.41E-06	8.15E-06	4.49E-06
1.59E-05	1.54E-05	2.2E-05
7.13E-06	6.92E-06	1.46E-05
1.47E-05	1.43E-05	5.12E-05
3.35E-05	3.25E-05	2.06E-05
4.46E-05	4.33E-05	5E-05
2.48E-05	2.4E-05	1.53E-05
4.07E-06	3.95E-06	1.36E-05
0.000103	0.0001	0.000116
5.54E-05	5.37E-05	4.09E-05
7.43E-05	7.2E-05	8.33E-05
0.000147	0.000142	0.000176
2.74E-05	2.65E-05	1.66E-05
1.49E-05	1.44E-05	3.05E-05
0.000223	0.000216	0.00025
0.000246	0.000239	0.00015
0.000249	0.000242	0.000184
0.000223	0.000216	0.00025
0.000142	0.000138	8.43E-05
0.00018	0.000175	0.000202
9.03E-05	8.76E-05	5.79E-05
0.001065	0.001033	0.001282
0.000201	0.000195	0.000149
0.00018	0.000175	0.000202
0.000163	0.000158	8.7E-05
1E-04	9.7E-05	0.000112
0.000592	0.000574	0.000712
0.000112	0.000108	8.25E-05
1E-04	9.7E-05	0.000112
0.000175	0.00017	0.0002
0.013382	0.012981	0.01501
3.26E-05	3.16E-05	1.93E-05
4.13E-05	4E-05	4.63E-05
4.13E-05	4E-05	4.63E-05
1.72E-05	1.67E-05	9.21E-06
2.44E-05	2.37E-05	1.45E-05
8.25E-05	8E-05	9.26E-05
1.24E-05	1.21E-05	7.96E-06
2.48E-05	2.4E-05	2.78E-05
2.24E-05	2.17E-05	1.2E-05
0.000104	0.000101	9.01E-05
9.19E-06	8.92E-06	5.46E-06
6.2E-05	6.01E-05	6.95E-05
0.000248	0.00024	0.000278
0.000277	0.000269	0.000205
0.000248	0.00024	0.000278
0.000424	0.000411	0.000587
0.000433	0.00042	0.000497
1.08E-05	1.05E-05	6.44E-06
9.47E-06	9.19E-06	9.99E-06
1.24E-05	1.21E-05	6.64E-06
0.000111	0.000108	9.58E-05
1.24E-05	1.2E-05	1.39E-05
0.000153	0.000148	0.000172
0.000171	0.000166	0.000126
0.000153	0.000148	0.000172
0.000446	0.000433	0.0005
0.000446	0.000433	0.0005
0.000446	0.000433	0.0005
0.00078	0.000756	0.000894

7.03E-05	6.82E-05	0.000224
1.25E-05	1.21E-05	9.21E-06
2.23E-05	2.16E-05	2.5E-05
3.01E-06	2.92E-06	1.05E-05
1.95E-05	1.89E-05	2.23E-05
0.000149	0.000144	0.000167
0.00088	0.000854	0.001059
0.000166	0.000161	0.000123
0.000149	0.000144	0.000167
0.000254	0.000247	0.000352
0.00026	0.000252	0.000298
1.23E-05	1.2E-05	7.33E-06
0.00011	0.000107	0.000123
1.56E-05	1.52E-05	1.75E-05
1.38E-05	1.34E-05	7.37E-06
2.41E-05	2.34E-05	1.43E-05
3.05E-05	2.96E-05	3.42E-05
3.05E-05	2.96E-05	3.42E-05
0.153895	0.149278	0.172612
0.172039	0.166877	0.127029
0.153895	0.149278	0.172612
0.269054	0.260982	0.308351
0.0026	0.002522	0.002979
0.000279	0.00027	0.000313
0.00204	0.001979	0.001257
0.000372	0.000361	0.000417
7.43E-05	7.21E-05	8.34E-05
4.65E-05	4.51E-05	5.21E-05
1.86E-05	1.8E-05	2.08E-05
0.00153	0.001484	0.000943
0.000253	0.000246	0.000387
0.000279	0.00027	0.000313
0.000112	0.000108	0.000125
0.00612	0.005937	0.003771
0.001014	0.000983	0.001549
0.000558	0.000541	0.000625
0.000558	0.000541	0.000625
0.000619	0.0006	0.000368
0.000127	0.000123	0.000194
3.72E-05	3.61E-05	4.17E-05
5.58E-05	5.41E-05	6.25E-05
0.00165	0.001601	0.000981
0.000372	0.000361	0.000417
0.0007	0.000679	0.000963
0.000765	0.000742	0.000471
0.000279	0.00027	0.000313
7.43E-05	7.21E-05	8.34E-05
0.0026	0.002522	0.002979
0.000279	0.00027	0.000313
0.00204	0.001979	0.001257
0.000372	0.000361	0.000417
7.43E-05	7.21E-05	8.34E-05
4.65E-05	4.51E-05	5.21E-05
1.86E-05	1.8E-05	2.08E-05
0.00153	0.001484	0.000943
0.000253	0.000246	0.000387
0.000279	0.00027	0.000313
0.000112	0.000108	0.000125
0.00612	0.005937	0.003771
0.001014	0.000983	0.001549
0.000558	0.000541	0.000625
0.000558	0.000541	0.000625
0.000619	0.0006	0.000368
0.000127	0.000123	0.000194
3.72E-05	3.61E-05	4.17E-05
5.58E-05	5.41E-05	6.25E-05
0.00165	0.001601	0.000981
0.000372	0.000361	0.000417
0.0007	0.000679	0.000963
0.000765	0.000742	0.000471
0.000279	0.00027	0.000313
7.43E-05	7.21E-05	8.34E-05
4.65E-05	4.51E-05	5.21E-05
1.86E-05	1.8E-05	2.08E-05
0.000147	0.000142	8.71E-05
8.18E-05	7.93E-05	0.000284
0.000372	0.000361	0.000417
0.000325	0.000315	0.000372
3.05E-05	2.96E-05	0.000102
0.000186	0.00018	0.000115
0.000186	0.00018	0.000115
0.000186	0.00018	0.000208
0.00065	0.00063	0.000745
0.000126	0.000123	0.000177
0.000112	0.000108	0.000125
0.000112	0.000108	0.000125
1.76E-05	1.7E-05	5.6E-05
8.8E-05	8.53E-05	5.23E-05
0.00051	0.000495	0.000314
0.000168	0.000163	8.99E-05
7.43E-05	7.21E-05	8.34E-05
0.000372	0.000361	0.000417
0.000975	0.000946	0.001117
0.000383	0.000371	0.000236
0.000139	0.000135	0.000156
1.189926	**1.154227**	**1.254158**

	MOVES ONROAD Emissions Factors (g/mile)									MOVES ONROAD Emissions (tpy)								
	7	10	13	11	12	14	5	8	9	7	10	13	11	12	14	5	8	9
VMT	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
1436	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.003556	0.006397	8.86E-06	0.000117	0.000108	0.000286	2.649283	3.26E-05	4.44E-06
22894	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.032869	0.047973	8.76E-05	0.001027	0.000944	0.002981	26.13528	0.000413	8.29E-05
2035	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.002922	0.004264	7.78E-06	9.13E-05	8.4E-05	0.000265	2.32311	3.67E-05	7.37E-06
12210	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.01753	0.025585	4.67E-05	0.000548	0.000504	0.00159	13.93866	0.00022	4.42E-05
3848328	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	12.75935	0.338215	0.009139	0.009377	0.008295	0.313857	1375.693	0.035823	0.007852
4156	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.010292	0.018513	2.56E-05	0.000339	0.000312	0.000827	7.667425	9.43E-05	1.28E-05
66230	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.095088	0.138781	0.000253	0.00297	0.002732	0.008624	75.60668	0.001194	0.00024
5887	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.008452	0.012336	2.25E-05	0.000264	0.000243	0.000767	6.720467	0.000106	2.13E-05

35323	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.050714	0.074017	0.000135	0.001584	0.001457	0.004599	40.32394	0.000637	0.000128
588240	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	1.950342	0.051698	0.001397	0.001433	0.001268	0.047975	210.2828	0.005476	0.0012
4504	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.011154	0.020063	2.78E-05	0.000368	0.000338	0.000896	8.309452	0.000102	1.39E-05
71780	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.103056	0.15041	0.000275	0.003219	0.002961	0.009346	81.94243	0.001294	0.00026
6380	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.00916	0.013369	2.44E-05	0.000286	0.000263	0.000831	7.283264	0.000115	2.31E-05
38283	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.054964	0.08022	0.000146	0.001717	0.001579	0.004985	43.70301	0.00069	0.000139
2894760	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	9.597738	0.254409	0.006874	0.007053	0.006239	0.236087	1034.813	0.026947	0.005906
1558	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.003858	0.00694	9.62E-06	0.000127	0.000117	0.00031	2.874362	3.53E-05	4.81E-06
24827	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.035645	0.052023	9.5E-05	0.001113	0.001024	0.003233	28.34194	0.000448	8.99E-05
2207	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.003169	0.004625	8.44E-06	9.9E-05	9.1E-05	0.000287	2.519462	3.98E-05	7.99E-06
13241	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.01901	0.027746	5.06E-05	0.000594	0.000546	0.001724	15.11563	0.000239	4.8E-05
970596	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	3.218065	0.085302	0.002305	0.002365	0.002092	0.079159	346.9667	0.009035	0.00198
2313	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.003321	0.004847	8.85E-06	0.000104	9.54E-05	0.000301	2.640469	4.17E-05	8.38E-06
1233	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.00177	0.002584	4.72E-06	5.53E-05	5.09E-05	0.000161	1.407565	2.22E-05	4.47E-06
1949846	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	6.464823	0.171364	0.00463	0.004751	0.004203	0.159023	697.027	0.018151	0.003978
160	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.000396	0.000713	9.87E-07	1.31E-05	1.2E-05	3.18E-05	0.295185	3.63E-06	4.94E-07
2313	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.003321	0.004847	8.85E-06	0.000104	9.54E-05	0.000301	2.640469	4.17E-05	8.38E-06
1233	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.00177	0.002584	4.72E-06	5.53E-05	5.09E-05	0.000161	1.407565	2.22E-05	4.47E-06
2037410	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	6.755146	0.17906	0.004838	0.004964	0.004391	0.166164	728.3292	0.018966	0.004157
160	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.000396	0.000713	9.87E-07	1.31E-05	1.2E-05	3.18E-05	0.295185	3.63E-06	4.94E-07
0	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0	0	0	0	0	0	0	0	0
636900	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	2.111677	0.055975	0.001512	0.001552	0.001373	0.051943	227.6777	0.005929	0.001299
209	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.000518	0.000931	1.29E-06	1.71E-05	1.57E-05	4.16E-05	0.385585	4.74E-06	6.46E-07
3330	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.004781	0.006978	1.27E-05	0.000149	0.000137	0.000434	3.801453	6E-05	1.21E-05
296	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.000425	0.00062	1.13E-06	1.33E-05	1.22E-05	3.85E-05	0.337907	5.34E-06	1.07E-06
1776	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.00255	0.003721	6.79E-06	7.96E-05	7.33E-05	0.000231	2.027442	3.2E-05	6.43E-06
665640	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	2.206966	0.058501	0.001581	0.001622	0.001435	0.054287	237.9516	0.006196	0.001358
2313	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.003321	0.004847	8.85E-06	0.000104	9.54E-05	0.000301	2.640469	4.17E-05	8.38E-06
1233	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.00177	0.002584	4.72E-06	5.53E-05	5.09E-05	0.000161	1.407565	2.22E-05	4.47E-06
152856	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	0.506803	0.013434	0.000363	0.000372	0.000329	0.012466	54.64265	0.001423	0.000312
160	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.000396	0.000713	9.87E-07	1.31E-05	1.2E-05	3.18E-05	0.295185	3.63E-06	4.94E-07
2313	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.003321	0.004847	8.85E-06	0.000104	9.54E-05	0.000301	2.640469	4.17E-05	8.38E-06
1233	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.00177	0.002584	4.72E-06	5.53E-05	5.09E-05	0.000161	1.407565	2.22E-05	4.47E-06
766260	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	2.540578	0.067344	0.00182	0.001867	0.001652	0.062494	273.9211	0.007133	0.001563
160	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.000396	0.000713	9.87E-07	1.31E-05	1.2E-05	3.18E-05	0.295185	3.63E-06	4.94E-07
2313	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.003321	0.004847	8.85E-06	0.000104	9.54E-05	0.000301	2.640469	4.17E-05	8.38E-06
1233	1.302458	1.900938	0.00347	0.04068	0.037425	0.118124	1035.616	0.016355	0.003286	0.00177	0.002584	4.72E-06	5.53E-05	5.09E-05	0.000161	1.407565	2.22E-05	4.47E-06
255420	3.007806	0.079729	0.002154	0.00221	0.001955	0.073987	324.2969	0.008445	0.001851	0.846859	0.022448	0.000607	0.000622	0.000551	0.020831	91.30702	0.002378	0.000521
800	2.24658	4.041014	0.005599	0.074091	0.068163	0.180534	1673.661	0.02058	0.002802	0.001981	0.003564	4.94E-06	6.53E-05	6.01E-05	0.000159	1.475924	1.81E-05	2.47E-06
									totals	**49.45708**	**2.036828**	**0.036389**	**0.051613**	**0.046211**	**1.249178**	**5673.515**	**0.143606**	**0.031344**

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 10:26:16 AM

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STUDY

Study Name

Austin Airport

Study Description

Construction Schedule 2025

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO_2, CH_4, and N_2O) Emission: Metric Ton

										NONROAD Emission Factors g/-hp-hr							NONROAD Emissions (TPY)						
										3	6	2	9	7	8	11							
Scenario I	Year	Project	Constructi	Equipment	MovesLookup	Fuel	HP Averag	Load Factc	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)	PM10 (tpy	PM2.5 (tp	VOC Exhaust (tpy)
1	2025	Taxiways	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	13.73625	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000212	0.000556	0.839179	2.26E-06	5.37E-05	5.21E-05	3.21E-05
1	2025	Taxiways	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	49.47214	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000755	0.002984	10.36285	2.74E-05	0.000187	0.000181	0.000228
1	2025	Taxiways	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	27.4725	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000513	0.001582	1.223082	3.37E-06	0.000125	0.000121	9.06E-05
1	2025	Taxiways	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	13.73625	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00021	0.000829	2.877311	7.61E-06	5.18E-05	5.02E-05	6.33E-05
1	2025	Taxiways	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	13.73625	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000306	0.000992	0.532513	1.44E-06	4.9E-05	4.76E-05	2.49E-05
1	2025	Taxiways	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	13.73625	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.000719	0.000942	0.165578	5.15E-07	9.83E-05	9.53E-05	0.000137
1	2025	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	17.5824	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.000427	0.001076	0.170139	6.26E-07	4.9E-05	4.75E-05	0.000101
1	2025	Taxiways	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	36	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000755	0.001278	0.18143	6.67E-07	7.35E-05	7.13E-05	0.000256
1	2025	Taxiways	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	36	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.000949	0.002321	1.017026	2.81E-06	0.000142	0.000138	8.62E-05
1	2025	Taxiways	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	48	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000733	0.002896	10.05449	2.66E-05	0.000181	0.000176	0.000221
1	2025	Taxiways	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	105.92	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.001121	0.003458	6.471108	1.72E-05	0.000275	0.000267	0.000173
1	2025	Taxiways	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	105.92	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001617	0.006389	22.1869	5.87E-05	0.000399	0.000387	0.000488
1	2025	Taxiways	Drainage -	Excavator	Excavators175	Diesel	175	0.59	105.92	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000887	0.002949	6.471212	1.71E-05	0.000211	0.000205	0.00014
1	2025	Taxiways	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	105.92	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.011885	0.021274	7.544061	2.25E-05	0.002684	0.002604	0.003118
1	2025	Taxiways	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	105.92	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001978	0.0061	4.715584	1.3E-05	0.000481	0.000467	0.000349
1	2025	Taxiways	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	105.92	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001617	0.006389	22.1869	5.87E-05	0.000399	0.000387	0.000488
1	2025	Taxiways	Drainage -	Roller	Rollers100	Diesel	100	0.59	105.92	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.002358	0.007648	4.106197	1.11E-05	0.000378	0.000367	0.000192
1	2025	Taxiways	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	58.84444	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000899	0.00355	12.32606	3.26E-05	0.000222	0.000215	0.000271
1	2025	Taxiways	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	58.84444	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.006603	0.011819	4.191145	1.25E-05	0.001491	0.001447	0.001732
1	2025	Taxiways	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	58.84444	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001099	0.003389	2.619769	7.23E-06	0.000267	0.000259	0.000194
1	2025	Taxiways	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	58.84444	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000899	0.00355	12.32606	3.26E-05	0.000222	0.000215	0.000271
1	2025	Taxiways	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	58.84444	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.003291	0.003368	0.946644	2.83E-06	0.000437	0.000424	0.00049
1	2025	Taxiways	Dust Contı	Water Truck	Off-highway Trucks600	Diesel	600	0.59	2880	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.043979	0.17373	603.2692	0.001597	0.010861	0.010535	0.013274
1	2025	Taxiways	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	61.05067	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000646	0.001993	3.729848	9.94E-06	0.000158	0.000154	9.94E-05
1	2025	Taxiways	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	61.05067	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000932	0.003683	12.78819	3.38E-05	0.00023	0.000223	0.000281
1	2025	Taxiways	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	61.05067	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000932	0.003683	12.78819	3.38E-05	0.00023	0.000223	0.000281
1	2025	Taxiways	Excavatior	Roller	Rollers100	Diesel	100	0.59	28.17723	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000627	0.002035	1.092346	2.96E-06	0.000101	9.76E-05	5.1E-05
1	2025	Taxiways	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	45.788	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000485	0.001495	2.797386	7.45E-06	0.000119	0.000115	7.46E-05
1	2025	Taxiways	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	122.1013	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001865	0.007366	25.57638	6.77E-05	0.00046	0.000447	0.000563
1	2025	Taxiways	Excavatior	Excavator	Excavators175	Diesel	175	0.59	36.6304	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000307	0.00102	2.237944	5.93E-06	7.3E-05	7.08E-05	4.83E-05
1	2025	Taxiways	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	36.6304	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000559	0.00221	7.672914	2.03E-05	0.000138	0.000134	0.000169
1	2025	Taxiways	Excavatior	Roller	Rollers100	Diesel	100	0.59	36.6304	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000816	0.002645	1.42005	3.84E-06	0.000131	0.000127	6.63E-05
1	2025	Taxiways	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	45.788	0.193562	0.494954	536.7416	0.001476	0.034439	0.033406	0.030256	0.003458	0.008844	9.590179	2.64E-05	0.000615	0.000597	0.000541
1	2025	Taxiways	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	17.23765	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000182	0.000563	1.053122	2.81E-06	4.47E-05	4.34E-05	2.81E-05
1	2025	Taxiways	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	36.66667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00056	0.002212	7.68051	2.03E-05	0.000138	0.000134	0.000169
1	2025	Taxiways	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	146.6667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00224	0.008847	30.72204	8.13E-05	0.000553	0.000537	0.000676
1	2025	Taxiways	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	146.6667	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.002739	0.008446	6.529635	1.8E-05	0.000666	0.000646	0.000484
1	2025	Taxiways	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	146.6667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00224	0.008847	30.72204	8.13E-05	0.000553	0.000537	0.000676
1	2025	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	146.6667	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.007679	0.010055	1.767936	5.5E-06	0.001049	0.001018	0.001467
1	2025	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	146.6667	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.008204	0.008394	2.359459	7.05E-06	0.00109	0.001058	0.001221
1	2025	Taxiways	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	14.6964	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000156	0.00048	0.897866	2.39E-06	3.81E-05	3.7E-05	2.39E-05
1	2025	Taxiways	Grading	Grader	Graders300	Diesel	300	0.59	14.6964	0.050706	0.18307	536.7878	0.001426	0.012448	0.012074	0.014259	0.000145	0.000525	1.539194	4.09E-06	3.57E-05	3.46E-05	4.09E-05
1	2025	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	14.6964	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000327	0.001061	0.569735	1.54E-06	5.25E-05	5.09E-05	2.66E-05
1	2025	Taxiways	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	13.24	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	0.003134	0.006733	2.772291	8.27E-06	0.000506	0.000491	0.00043
1	2025	Taxiways	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	13.24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000202	0.000799	2.773363	7.34E-06	4.99E-05	4.84E-05	6.1E-05
1	2025	Taxiways	Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	44.4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000678	0.002678	9.3004	2.46E-05	0.000167	0.000162	0.000205
1	2025	Taxiways	Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	44.4	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.004982	0.008918	3.162352	9.44E-06	0.001125	0.001091	0.001307
1	2025	Taxiways	Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	44.4	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000829	0.002557	1.976699	5.45E-06	0.000202	0.000196	0.000146
1	2025	Taxiways	Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	44.4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000678	0.002678	9.3004	2.46E-05	0.000167	0.000162	0.000205
1	2025	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	44.4	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.002325	0.003044	0.535203	1.66E-06	0.000318	0.000308	0.000444
1	2025	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	44.4	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.002483	0.002541	0.714273	2.13E-06	0.00033	0.00032	0.00037
1	2025	Taxiways	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	226.2857	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003456	0.01365	47.39972	0.000125	0.000853	0.000828	0.001043
1	2025	Taxiways	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	226.2857	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.004226	0.013032	10.07429	2.78E-05	0.001028	0.000997	0.000746
1	2025	Taxiways	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	226.2857	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003456	0.01365	47.39972	0.000125	0.000853	0.000828	0.001043
1	2025	Taxiways	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	12	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000224	0.000691	0.534243	1.47E-06	5.45E-05	5.29E-05	3.96E-05
1	2025	Taxiways	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
1	2025	Taxiways	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	12	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000155	0.000262	0.03715	1.37E-07	1.5E-05	1.46E-05	5.24E-05
1	2025	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	12	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000671	0.000687	0.193047	5.76E-07	8.92E-05	8.65E-05	9.99E-05

1	2025	Taxiways	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	23.13474	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000245	0.000755	1.413401	3.76E-06	6E-05	5.82E-05	3.77E-05
1	2025	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	162.8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002486	0.009821	34.10147	9.02E-05	0.000614	0.000596	0.00075
1	2025	Taxiways	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	23.13474	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000353	0.001396	4.845998	1.28E-05	8.72E-05	8.46E-05	0.000107
1	2025	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	22.54154	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000502	0.001628	0.873867	2.36E-06	8.05E-05	7.81E-05	4.08E-05
1	2025	Taxiways	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	32.65867	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000346	0.001066	1.995258	5.31E-06	8.47E-05	8.22E-05	5.32E-05
1	2025	Taxiways	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	32.65867	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000499	0.00197	6.840961	1.81E-05	0.000123	0.000119	0.000151
1	2025	Taxiways	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	32.65867	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000499	0.00197	6.840961	1.81E-05	0.000123	0.000119	0.000151
2	2025	Terminal /	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	39.738	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000612	0.001609	2.427684	6.54E-06	0.000155	0.000151	9.29E-05
2	2025	Terminal /	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	143.1194	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002186	0.008633	29.979	7.93E-05	0.00054	0.000524	0.00066
2	2025	Terminal /	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	79.476	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001484	0.004577	3.53829	9.76E-06	0.000361	0.00035	0.000262
2	2025	Terminal /	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	39.738	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000607	0.002397	8.323858	2.2E-05	0.00015	0.000145	0.000183
2	2025	Terminal /	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	39.738	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000885	0.002869	1.540522	4.17E-06	0.000142	0.000138	7.19E-05
2	2025	Terminal /	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	39.738	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.002081	0.002724	0.479006	1.49E-06	0.000284	0.000276	0.000397
2	2025	Terminal /	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	50.86464	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.001235	0.003112	0.492199	1.81E-06	0.000142	0.000137	0.000291
2	2025	Terminal /	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	81.6	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.001711	0.002898	0.411241	1.51E-06	0.000167	0.000162	0.00058
2	2025	Terminal /	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	81.6	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.002152	0.005261	2.305259	6.36E-06	0.000322	0.000313	0.000195
2	2025	Terminal /	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	108.8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001661	0.006563	22.79017	6.03E-05	0.00041	0.000398	0.000501
2	2025	Terminal /	Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	105.968	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.002795	0.006832	2.993673	8.26E-06	0.000419	0.000406	0.000254
2	2025	Terminal /	Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	105.968	0.302419	2.549508	595.8721	0.001576	0.02584	0.025065	0.095301	0.000834	0.007028	1.642655	4.35E-06	7.12E-05	6.91E-05	0.000263
2	2025	Terminal /	Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	441.5333	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.006742	0.026635	92.48731	0.000245	0.001665	0.001615	0.002035
2	2025	Terminal /	Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	211.936	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.003958	0.012205	9.435441	2.6E-05	0.000962	0.000934	0.000699
2	2025	Terminal /	Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	317.904	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.004855	0.019177	66.59086	0.000176	0.001199	0.001163	0.001465
2	2025	Terminal /	Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	105.968	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.01189	0.021284	7.54748	2.25E-05	0.002686	0.002605	0.003119
2	2025	Terminal /	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	105.968	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.001632	0.00429	6.473825	1.74E-05	0.000414	0.000402	0.000248
2	2025	Terminal /	Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	105.968	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.002573	0.006484	1.025415	3.77E-06	0.000295	0.000286	0.000607
2	2025	Terminal /	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	23.232	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000246	0.000759	1.419343	3.78E-06	6.03E-05	5.85E-05	3.78E-05
2	2025	Terminal /	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	23.232	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000355	0.001401	4.866371	1.29E-05	8.76E-05	8.5E-05	0.000107
2	2025	Terminal /	Drainage -	Excavator	Excavators175	Diesel	175	0.59	23.232	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000194	0.000647	1.419365	3.76E-06	4.63E-05	4.49E-05	3.07E-05
2	2025	Terminal /	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	23.232	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.002607	0.004666	1.654679	4.94E-06	0.000589	0.000571	0.000684
2	2025	Terminal /	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	23.232	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000434	0.001338	1.034294	2.85E-06	0.000106	0.000102	7.66E-05
2	2025	Terminal /	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	23.232	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000355	0.001401	4.866371	1.29E-05	8.76E-05	8.5E-05	0.000107
2	2025	Terminal /	Drainage -	Roller	Rollers100	Diesel	100	0.59	23.232	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000517	0.001677	0.900634	2.44E-06	8.3E-05	8.05E-05	4.2E-05
2	2025	Terminal /	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	12.90667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000197	0.000779	2.70354	7.15E-06	4.87E-05	4.72E-05	5.95E-05
2	2025	Terminal /	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	12.90667	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.001448	0.002592	0.919266	2.74E-06	0.000327	0.000317	0.00038
2	2025	Terminal /	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	12.90667	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000241	0.000743	0.574608	1.58E-06	5.86E-05	5.69E-05	4.26E-05
2	2025	Terminal /	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	12.90667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000197	0.000779	2.70354	7.15E-06	4.87E-05	4.72E-05	5.95E-05
2	2025	Terminal /	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	12.90667	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000722	0.000739	0.207632	6.2E-07	9.59E-05	9.31E-05	0.000107
2	2025	Terminal /	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	2880	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.043979	0.17373	603.2692	0.001597	0.010861	0.010535	0.013274
2	2025	Terminal /	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	176.6133	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.001869	0.005766	10.79007	2.87E-05	0.000458	0.000444	0.000288
2	2025	Terminal /	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	176.6133	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002697	0.010654	36.99492	9.79E-05	0.000666	0.000646	0.000814
2	2025	Terminal /	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	176.6133	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002697	0.010654	36.99492	9.79E-05	0.000666	0.000646	0.000814
2	2025	Terminal /	Excavatior	Roller	Rollers100	Diesel	100	0.59	81.51385	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.001815	0.005886	3.160045	8.55E-06	0.000291	0.000282	0.000148
2	2025	Terminal /	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	132.46	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.001402	0.004325	8.092551	2.16E-05	0.000344	0.000333	0.000216
2	2025	Terminal /	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	353.2267	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.005394	0.021308	73.98985	0.000196	0.001332	0.001292	0.001628
2	2025	Terminal /	Excavatior	Excavator	Excavators175	Diesel	175	0.59	105.968	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000887	0.00295	6.474144	1.72E-05	0.000211	0.000205	0.00014
2	2025	Terminal /	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	105.968	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001618	0.006392	22.19695	5.87E-05	0.0004	0.000388	0.000488
2	2025	Terminal /	Excavatior	Roller	Rollers100	Diesel	100	0.59	105.968	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.002359	0.007651	4.108058	1.11E-05	0.000378	0.000367	0.000192
2	2025	Terminal /	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	132.46	0.193562	0.494954	536.7416	0.001476	0.034439	0.033406	0.030256	0.010005	0.025583	27.74341	7.63E-05	0.00178	0.001727	0.001564
2	2025	Terminal /	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	49.86729	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000528	0.001628	3.046607	8.12E-06	0.000129	0.000125	8.12E-05
2	2025	Terminal /	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	7.955556	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000121	0.00048	1.666438	4.41E-06	3E-05	2.91E-05	3.67E-05
2	2025	Terminal /	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	31.82222	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000486	0.00192	6.665752	1.76E-05	0.00012	0.000116	0.000147
2	2025	Terminal /	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	31.82222	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000594	0.001833	1.416733	3.91E-06	0.000145	0.00014	0.000105
2	2025	Terminal /	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	31.82222	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000486	0.00192	6.665752	1.76E-05	0.00012	0.000116	0.000147
2	2025	Terminal /	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	31.82222	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.001666	0.002182	0.383589	1.19E-06	0.000228	0.000221	0.000318
2	2025	Terminal /	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	31.82222	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.00178	0.001821	0.511931	1.53E-06	0.000237	0.000229	0.000265
2	2025	Terminal /	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	33.0403	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.00035	0.001079	2.018574	5.38E-06	8.57E-05	8.31E-05	5.38E-05
2	2025	Terminal /	Grading	Grader	Graders300	Diesel	300	0.59	33.0403	0.050706	0.18307	536.7878	0.001426	0.012448	0.012074	0.014259	0.000327	0.00118	3.460401	9.2E-06	8.02E-05	7.78E-05	9.19E-05
2	2025	Terminal /	Grading	Roller	Rollers100	Diesel	100	0.59	33.0403	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000736	0.002386	1.280872	3.47E-06	0.000118	0.000114	5.98E-05
2	2025	Terminal /	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	29.766	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	0.007046	0.015138	6.232629	1.86E-05	0.001137	0.001103	0.000966
2	2025	Terminal /	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	29.766	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000455	0.001796	6.235038	1.65E-05	0.000112	0.000109	0.000137
2	2025	Terminal /	Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	14.88	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000227	0.000898	3.116891	8.25E-06	5.61E-05	5.44E-05	6.86E-05
2	2025	Terminal /	Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	14.88	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.00167	0.002989	1.059815	3.16E-06	0.000377	0.000366	0.000438
2	2025	Terminal /	Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	14.88	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000278	0.000857	0.662461	1.83E-06	6.76E-05	6.55E-05	4.91E-05
2	2025	Terminal /	Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	14.88	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000227	0.000898	3.116891	8.25E-06	5.61E-05	5.44E-05	6.86E-05
2	2025	Terminal /	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	14.88	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.000779	0.00102	0.179365	5.58E-07	0.000106	0.000103	0.000149
2	2025	Terminal /	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	14.88	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000832	0.000852	0.239378	7.15E-07	0.000111	0.000107	0.000124
2	2025	Terminal /	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	654.6286	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.009997	0.039489	137.124	0.000363	0.002469	0.002395	0.003017
2	2025	Terminal /	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	654.6286	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.012227	0.0377	29.14422	8.04E-05	0.002973	0.002884	0.002159
2	2025	Terminal /	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	654.6286	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.009997	0.039489	137.124	0.000363	0.002469	0.002395	0.003017
2	2025	Terminal /	Sealing/Fu	Distributing Tanker	Off-highway Trucks600	Diesel	600	0.59	84.7744	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001295	0.005114	17.75756	4.7E-05	0.00032	0.00031	0.000391
2	2025	Terminal /	Sealing/Fu	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	84.7744	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001583	0.004882	3.774176	1.04E-05	0.000385	0.000373	0.00028
2	2025	Terminal /	Sealing/Fu	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	84.7744	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001295	0.005114	17.75756	4.7E-05	0.00032	0.00031	0.000391
2	2025	Terminal /	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	27.2	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000508	0.001566	1.21095	3.34E-06	0.000124	0.00012	8.97E-05
2	2025	Terminal /	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	54.4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000831	0.003282	11.39508	3.02E-05	0.000205	0.000199	0.000251
2	2025	Terminal /	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	27.2	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.00035	0.000593	0.084206	3.1E-07	3.41E-05	3.31E-05	0.000119
2	2025	Terminal /	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	27.2	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.001521	0.001557	0.437572	1.31E-06	0.000202	0.000196	0.000226
2	2025	Terminal /	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	66.92716	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000708	0.002185	4.088868	1.09E-05	0.000174	0.000168	0.000109
2	2025	Terminal /	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	470.9689	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.007192	0.02841	98.65313	0.000261	0.001776	0.001723	0.002171
2	2025	Terminal /	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	66.92716	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001022	0.004037	14.01913	3.71E-05	0.000252	0.000245	0.000308
2	2025	Terminal /	Subbase P	Roller	Rollers100	Diesel	100	0.59	65.21108	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.001452	0.004709	2.528036	6.84E-06	0.000233	0.000226	0.000118
2	2025	Terminal /	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	73.42267	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000777	0.002397	4.485706	1.19E-05	0.00019	0.000185	0.00012
2	2025	Terminal /	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	73.42267	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001121	0.004429	15.37973	4.07E-05	0.000277	0.000269	0.000338
2	2025	Terminal /	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	73.42267	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001121	0.004429	15.37973	4.07E-05	0.000277	0.000269	0.000338
3	2025	Terminal /	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	43.068	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000663	0.001744	2.631122	7.09E-06	0.000168	0.000163	0.000101

3	2025	Terminal / Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	155.1127	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002369	0.009357	32.49121	8.6E-05	0.000585	0.000567	0.000715
3	2025	Terminal / Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	86.136	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001609	0.004961	3.834795	1.06E-05	0.000391	0.000379	0.000284
3	2025	Terminal / Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	43.068	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000658	0.002598	9.021388	2.39E-05	0.000162	0.000158	0.000199
3	2025	Terminal / Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	43.068	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000959	0.00311	1.669616	4.52E-06	0.000154	0.000149	7.79E-05
3	2025	Terminal / Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	43.068	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.002255	0.002952	0.519146	1.61E-06	0.000308	0.000299	0.000431
3	2025	Terminal / Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	55.12704	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.001339	0.003373	0.533445	1.96E-06	0.000154	0.000149	0.000316
3	2025	Terminal / Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	88.8	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.001861	0.003153	0.447527	1.65E-06	0.000181	0.000176	0.000631
3	2025	Terminal / Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	88.8	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.002342	0.005725	2.508664	6.92E-06	0.000351	0.00034	0.000213
3	2025	Terminal / Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	118.4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001808	0.007142	24.80107	6.56E-05	0.000447	0.000433	0.000546
3	2025	Terminal / Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	114.848	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.003029	0.007405	3.244539	8.95E-06	0.000454	0.00044	0.000275
3	2025	Terminal / Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	114.848	0.302419	2.549508	595.8721	0.001576	0.02584	0.025065	0.095301	0.000904	0.007617	1.780307	4.71E-06	7.72E-05	7.49E-05	0.000285
3	2025	Terminal / Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	478.5333	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.007308	0.028867	100.2376	0.000265	0.001805	0.001751	0.002206
3	2025	Terminal / Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	229.696	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.00429	0.013228	10.22612	2.82E-05	0.001043	0.001012	0.000758
3	2025	Terminal / Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	344.544	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.005261	0.020784	72.1711	0.000191	0.001299	0.00126	0.001588
3	2025	Terminal / Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	114.848	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.012887	0.023068	8.17995	2.44E-05	0.002911	0.002823	0.003381
3	2025	Terminal / Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	114.848	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.001769	0.00465	7.016324	1.89E-05	0.000449	0.000436	0.000268
3	2025	Terminal / Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	114.848	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.002789	0.007028	1.111343	4.09E-06	0.00032	0.00031	0.000657
3	2025	Terminal / Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	13.12	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000139	0.000428	0.801557	2.14E-06	3.4E-05	3.3E-05	2.14E-05
3	2025	Terminal / Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	13.12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.0002	0.000791	2.748226	7.27E-06	4.95E-05	4.8E-05	6.05E-05
3	2025	Terminal / Drainage -	Excavator	Excavators175	Diesel	175	0.59	13.12	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.00011	0.000365	0.80157	2.12E-06	2.61E-05	2.53E-05	1.73E-05
3	2025	Terminal / Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	13.12	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.001472	0.002635	0.934461	2.79E-06	0.000333	0.000323	0.000386
3	2025	Terminal / Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	13.12	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000245	0.000756	0.584106	1.61E-06	5.96E-05	5.78E-05	4.33E-05
3	2025	Terminal / Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	13.12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.0002	0.000791	2.748226	7.27E-06	4.95E-05	4.8E-05	6.05E-05
3	2025	Terminal / Drainage -	Roller	Rollers100	Diesel	100	0.59	13.12	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000292	0.000947	0.508623	1.38E-06	4.68E-05	4.54E-05	2.37E-05
3	2025	Terminal / Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	7.288889	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000111	0.00044	1.526792	4.04E-06	2.75E-05	2.67E-05	3.36E-05
3	2025	Terminal / Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	7.288889	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.000818	0.001464	0.519145	1.55E-06	0.000185	0.000179	0.000215
3	2025	Terminal / Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	7.288889	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000136	0.00042	0.324503	8.95E-07	3.31E-05	3.21E-05	2.4E-05
3	2025	Terminal / Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	7.288889	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000111	0.00044	1.526792	4.04E-06	2.75E-05	2.67E-05	3.36E-05
3	2025	Terminal / Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	7.288889	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000408	0.000417	0.117258	3.5E-07	5.42E-05	5.26E-05	6.07E-05
3	2025	Terminal / Dust Cont	Water Truck	Off-highway Trucks600	Diesel	600	0.59	2880	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.043979	0.17373	603.2692	0.001597	0.010861	0.010535	0.013274
3	2025	Terminal / Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	191.4133	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.002025	0.00625	11.69426	3.12E-05	0.000497	0.000482	0.000312
3	2025	Terminal / Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	191.4133	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002923	0.011547	40.09506	0.000106	0.000722	0.0007	0.000882
3	2025	Terminal / Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	191.4133	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002923	0.011547	40.09506	0.000106	0.000722	0.0007	0.000882
3	2025	Terminal / Excavatior	Roller	Rollers100	Diesel	100	0.59	88.34462	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.001967	0.006379	3.424853	9.27E-06	0.000315	0.000306	0.00016
3	2025	Terminal / Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	143.56	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.001519	0.004687	8.770698	2.34E-05	0.000372	0.000361	0.000234
3	2025	Terminal / Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	382.8267	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.005846	0.023093	80.19012	0.000212	0.001444	0.0014	0.001765
3	2025	Terminal / Excavatior	Excavator	Excavators175	Diesel	175	0.59	114.848	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000961	0.003198	7.01667	1.86E-05	0.000229	0.000222	0.000152
3	2025	Terminal / Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	114.848	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001754	0.006928	24.05703	6.37E-05	0.000433	0.00042	0.000529
3	2025	Terminal / Excavatior	Roller	Rollers100	Diesel	100	0.59	114.848	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.002557	0.008293	4.452309	1.2E-05	0.00041	0.000398	0.000208
3	2025	Terminal / Excavatior	Scraper	Scrapers600	Diesel	600	0.59	143.56	0.193562	0.494954	536.7416	0.001476	0.034439	0.033406	0.030256	0.010843	0.027727	30.06827	8.27E-05	0.001929	0.001871	0.001695
3	2025	Terminal / Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	54.04612	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000572	0.001765	3.30191	8.8E-06	0.00014	0.000136	8.8E-05
3	2025	Terminal / Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	4.444444	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.79E-05	0.000268	0.930971	2.46E-06	1.68E-05	1.63E-05	2.05E-05
3	2025	Terminal / Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	17.77778	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000271	0.001072	3.723884	9.86E-06	6.7E-05	6.5E-05	8.19E-05
3	2025	Terminal / Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	17.77778	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000332	0.001024	0.791471	2.18E-06	8.07E-05	7.83E-05	5.86E-05
3	2025	Terminal / Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	17.77778	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000271	0.001072	3.723884	9.86E-06	6.7E-05	6.5E-05	8.19E-05
3	2025	Terminal / Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	17.77778	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.000931	0.001219	0.214295	6.66E-07	0.000127	0.000123	0.000178
3	2025	Terminal / Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	17.77778	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000994	0.001017	0.285995	8.54E-07	0.000132	0.000128	0.000148
3	2025	Terminal / Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	35.7709	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000379	0.001168	2.185398	5.82E-06	9.28E-05	9E-05	5.83E-05
3	2025	Terminal / Grading	Grader	Graders300	Diesel	300	0.59	35.7709	0.050706	0.18307	536.7878	0.001426	0.012448	0.012074	0.014259	0.000354	0.001278	3.746384	9.96E-06	8.69E-05	8.43E-05	9.95E-05
3	2025	Terminal / Grading	Roller	Rollers100	Diesel	100	0.59	35.7709	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000796	0.002583	1.386729	3.75E-06	0.000128	0.000124	6.47E-05
3	2025	Terminal / Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	32.226	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	0.007629	0.016389	6.747722	2.01E-05	0.001231	0.001194	0.001046
3	2025	Terminal / Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	32.226	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000492	0.001944	6.750331	1.79E-05	0.000122	0.000118	0.000149
3	2025	Terminal / Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	15.68	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000239	0.000946	3.284466	8.69E-06	5.91E-05	5.74E-05	7.23E-05
3	2025	Terminal / Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	15.68	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.001759	0.003149	1.116795	3.33E-06	0.000397	0.000385	0.000462
3	2025	Terminal / Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	15.68	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000293	0.000903	0.698077	1.93E-06	7.12E-05	6.91E-05	5.17E-05
3	2025	Terminal / Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	15.68	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000239	0.000946	3.284466	8.69E-06	5.91E-05	5.74E-05	7.23E-05
3	2025	Terminal / Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	15.68	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.000821	0.001075	0.189008	5.88E-07	0.000112	0.000109	0.000157
3	2025	Terminal / Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	15.68	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000877	0.000897	0.252248	7.53E-07	0.000117	0.000113	0.000131
3	2025	Terminal / Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	709.4857	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.010834	0.042798	148.6149	0.000393	0.002676	0.002595	0.00327
3	2025	Terminal / Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	709.4857	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.013252	0.040859	31.58647	8.71E-05	0.003222	0.003125	0.00234
3	2025	Terminal / Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	709.4857	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.010834	0.042798	148.6149	0.000393	0.002676	0.002595	0.00327
3	2025	Terminal / Sealing/Fu	Distributing Tanker	Off-highway Trucks600	Diesel	600	0.59	91.8784	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001403	0.005542	19.24563	5.09E-05	0.000346	0.000336	0.000423
3	2025	Terminal / Sealing/Fu	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	91.8784	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001716	0.005291	4.090448	1.13E-05	0.000417	0.000405	0.000303
3	2025	Terminal / Sealing/Fu	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	91.8784	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001403	0.005542	19.24563	5.09E-05	0.000346	0.000336	0.000423
3	2025	Terminal / Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	29.6	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000553	0.001705	1.317799	3.63E-06	0.000134	0.00013	9.76E-05
3	2025	Terminal / Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	59.2	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000904	0.003571	12.40053	3.28E-05	0.000223	0.000217	0.000273
3	2025	Terminal / Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	29.6	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000381	0.000646	0.091636	3.37E-07	3.71E-05	3.6E-05	0.000129
3	2025	Terminal / Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	29.6	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.001656	0.001694	0.476182	1.42E-06	0.00022	0.000213	0.000246
3	2025	Terminal / Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	72.53558	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000768	0.002368	4.43151	1.18E-05	0.000188	0.000183	0.000118
3	2025	Terminal / Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	510.4356	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.007795	0.030791	106.9202	0.000283	0.001925	0.001867	0.002353
3	2025	Terminal / Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	72.53558	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001108	0.004376	15.19392	4.02E-05	0.000274	0.000265	0.000334
3	2025	Terminal / Subbase P	Roller	Rollers100	Diesel	100	0.59	70.67569	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.001574	0.005103	2.739882	7.41E-06	0.000252	0.000245	0.000128
3	2025	Terminal / Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	79.49067	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000841	0.002595	4.856427	1.29E-05	0.000206	0.0002	0.000129
3	2025	Terminal / Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	79.49067	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001214	0.004795	16.65079	4.41E-05	0.0003	0.000291	0.000366
3	2025	Terminal / Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	79.49067	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001214	0.004795	16.65079	4.41E-05	0.0003	0.000291	0.000366
4	2025	Taxiway E Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	14.89625	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000229	0.000603	0.910046	2.45E-06	5.83E-05	5.65E-05	3.48E-05
4	2025	Taxiway E Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	53.64997	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000819	0.003236	11.23798	2.97E-05	0.000202	0.000196	0.000247
4	2025	Taxiway E Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	29.7925	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000556	0.001716	1.326369	3.66E-06	0.000135	0.000131	9.83E-05
4	2025	Taxiway E Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	14.89625	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000227	0.000899	3.120295	8.26E-06	5.62E-05	5.45E-05	6.87E-05
4	2025	Taxiway E Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	14.89625	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000332	0.001076	0.577482	1.56E-06	5.32E-05	5.16E-05	2.7E-05
4	2025	Taxiway E Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	14.89625	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.00078	0.001021	0.179561	5.58E-07	0.000107	0.000103	0.000149
4	2025	Taxiway E Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	19.0672	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.000463	0.001167	0.184506	6.78E-07	5.31E-05	5.15E-05	0.000109
4	2025	Taxiway E Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	36	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000755	0.001278	0.18143	6.67E-07	7.35E-05	7.13E-05	0.000256
4	2025	Taxiway E Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	36	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.000949	0.002321	1.017026	2.81E-06	0.000142	0.000138	8.62E-05

4	2025	Taxiway E	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	48	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000733	0.002896	10.05449	2.66E-05	0.000181	0.000176	0.000221
4	2025	Taxiway E	Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	39.7232	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.001048	0.002561	1.122209	3.1E-06	0.000157	0.000152	9.51E-05
4	2025	Taxiway E	Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	39.7232	0.302419	2.549508	595.8721	0.001576	0.02584	0.025065	0.095301	0.000313	0.002635	0.615766	1.63E-06	2.67E-05	2.59E-05	9.85E-05
4	2025	Taxiway E	Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	165.5133	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002527	0.009984	34.66982	9.18E-05	0.000624	0.000605	0.000763
4	2025	Taxiway E	Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	79.4464	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001484	0.004575	3.536973	9.76E-06	0.000361	0.00035	0.000262
4	2025	Taxiway E	Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	119.1696	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00182	0.007189	24.96227	6.61E-05	0.000449	0.000436	0.000549
4	2025	Taxiway E	Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	39.7232	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.004457	0.007979	2.829251	8.44E-06	0.001007	0.000977	0.001169
4	2025	Taxiway E	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	39.7232	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000612	0.001608	2.42678	6.54E-06	0.000155	0.000151	9.29E-05
4	2025	Taxiway E	Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	39.7232	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.000965	0.002431	0.384387	1.41E-06	0.000111	0.000107	0.000227
4	2025	Taxiway E	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	78.4	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.00083	0.00256	4.789793	1.28E-05	0.000203	0.000197	0.000128
4	2025	Taxiway E	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	78.4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001197	0.004729	16.42233	4.35E-05	0.000296	0.000287	0.000361
4	2025	Taxiway E	Drainage -	Excavator	Excavators175	Diesel	175	0.59	78.4	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000656	0.002183	4.78987	1.27E-05	0.000156	0.000151	0.000103
4	2025	Taxiway E	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	78.4	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.008797	0.015747	5.583973	1.67E-05	0.001987	0.001927	0.002308
4	2025	Taxiway E	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	78.4	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001464	0.004515	3.490387	9.63E-06	0.000356	0.000345	0.000259
4	2025	Taxiway E	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	78.4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001197	0.004729	16.42233	4.35E-05	0.000296	0.000287	0.000361
4	2025	Taxiway E	Drainage -	Roller	Rollers100	Diesel	100	0.59	78.4	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.001746	0.005661	3.03933	8.22E-06	0.00028	0.000272	0.000142
4	2025	Taxiway E	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	43.55556	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000665	0.002627	9.123515	2.41E-05	0.000164	0.000159	0.000201
4	2025	Taxiway E	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	43.55556	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.004887	0.008748	3.102207	9.26E-06	0.001104	0.001071	0.001282
4	2025	Taxiway E	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	43.55556	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000814	0.002508	1.939104	5.35E-06	0.000198	0.000192	0.000144
4	2025	Taxiway E	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	43.55556	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000665	0.002627	9.123515	2.41E-05	0.000164	0.000159	0.000201
4	2025	Taxiway E	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	43.55556	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.002436	0.002493	0.700688	2.09E-06	0.000324	0.000314	0.000363
4	2025	Taxiway E	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	2880	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.043979	0.17373	603.2692	0.001597	0.010861	0.010535	0.013274
4	2025	Taxiway E	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	66.20533	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000701	0.002162	4.044769	1.08E-05	0.000172	0.000167	0.000108
4	2025	Taxiway E	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	66.20533	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001011	0.003994	13.86793	3.67E-05	0.00025	0.000242	0.000305
4	2025	Taxiway E	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	66.20533	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001011	0.003994	13.86793	3.67E-05	0.00025	0.000242	0.000305
4	2025	Taxiway E	Excavatior	Roller	Rollers100	Diesel	100	0.59	30.55631	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.00068	0.002206	1.184575	3.21E-06	0.000109	0.000106	5.53E-05
4	2025	Taxiway E	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	49.654	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000525	0.001621	3.033576	8.08E-06	0.000129	0.000125	8.09E-05
4	2025	Taxiway E	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	132.4107	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002022	0.007987	27.73586	7.34E-05	0.000499	0.000484	0.00061
4	2025	Taxiway E	Excavatior	Excavator	Excavators175	Diesel	175	0.59	39.7232	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000332	0.001106	2.4269	6.43E-06	7.91E-05	7.67E-05	5.24E-05
4	2025	Taxiway E	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	39.7232	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000607	0.002396	8.320758	2.2E-05	0.00015	0.000145	0.000183
4	2025	Taxiway E	Excavatior	Roller	Rollers100	Diesel	100	0.59	39.7232	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000884	0.002868	1.539948	4.17E-06	0.000142	0.000138	7.19E-05
4	2025	Taxiway E	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	49.654	0.193562	0.494954	536.7416	0.001476	0.034439	0.033406	0.030256	0.00375	0.00959	10.3999	2.86E-05	0.000667	0.000647	0.000586
4	2025	Taxiway E	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	18.69333	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000198	0.00061	1.142056	3.04E-06	4.85E-05	4.7E-05	3.04E-05
4	2025	Taxiway E	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	27.11111	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000414	0.001635	5.678923	1.5E-05	0.000102	9.92E-05	0.000125
4	2025	Taxiway E	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	108.4444	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001656	0.006542	22.71569	6.01E-05	0.000409	0.000397	0.0005
4	2025	Taxiway E	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	108.4444	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.002025	0.006245	4.827972	1.33E-05	0.000492	0.000478	0.000358
4	2025	Taxiway E	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	108.4444	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001656	0.006542	22.71569	6.01E-05	0.000409	0.000397	0.0005
4	2025	Taxiway E	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	108.4444	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.005678	0.007434	1.307201	4.06E-06	0.000776	0.000753	0.001085
4	2025	Taxiway E	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	108.4444	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.006066	0.006206	1.74457	5.21E-06	0.000806	0.000782	0.000903
4	2025	Taxiway E	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	14.6853	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000155	0.000479	0.897188	2.39E-06	3.81E-05	3.7E-05	2.39E-05
4	2025	Taxiway E	Grading	Grader	Graders300	Diesel	300	0.59	14.6853	0.050706	0.18307	536.7878	0.001426	0.012448	0.012074	0.014259	0.000145	0.000525	1.538032	4.09E-06	3.57E-05	3.46E-05	4.09E-05
4	2025	Taxiway E	Grading	Roller	Rollers100	Diesel	100	0.59	14.6853	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000327	0.00106	0.569305	1.54E-06	5.24E-05	5.09E-05	2.66E-05
4	2025	Taxiway E	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	13.23	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	0.003132	0.006728	2.770197	8.26E-06	0.000505	0.00049	0.000429
4	2025	Taxiway E	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	13.23	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000202	0.000798	2.771268	7.33E-06	4.99E-05	4.84E-05	6.1E-05
4	2025	Taxiway E	Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	33.12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000506	0.001998	6.937596	1.84E-05	0.000125	0.000121	0.000153
4	2025	Taxiway E	Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	33.12	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.003716	0.006652	2.358944	7.04E-06	0.000839	0.000814	0.000975
4	2025	Taxiway E	Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	33.12	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000619	0.001907	1.47451	4.07E-06	0.00015	0.000146	0.000109
4	2025	Taxiway E	Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	33.12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000506	0.001998	6.937596	1.84E-05	0.000125	0.000121	0.000153
4	2025	Taxiway E	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	33.12	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.001734	0.002271	0.399232	1.24E-06	0.000237	0.00023	0.000331
4	2025	Taxiway E	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	33.12	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.001853	0.001896	0.532809	1.59E-06	0.000246	0.000239	0.000276
4	2025	Taxiway E	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	245.3943	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003747	0.014803	51.40236	0.000136	0.000925	0.000898	0.001131
4	2025	Taxiway E	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	245.3943	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.004583	0.014132	10.92501	3.01E-05	0.001114	0.001081	0.00081
4	2025	Taxiway E	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	245.3943	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003747	0.014803	51.40236	0.000136	0.000925	0.000898	0.001131
4	2025	Taxiway E	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	12	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000224	0.000691	0.534243	1.47E-06	5.45E-05	5.29E-05	3.96E-05
4	2025	Taxiway E	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
4	2025	Taxiway E	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	12	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000155	0.000262	0.03715	1.37E-07	1.5E-05	1.46E-05	5.24E-05
4	2025	Taxiway E	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	12	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000671	0.000687	0.193047	5.76E-07	8.92E-05	8.65E-05	9.99E-05
4	2025	Taxiway E	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	25.08842	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000265	0.000819	1.53276	4.08E-06	6.51E-05	6.31E-05	4.09E-05
4	2025	Taxiway E	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	176.5467	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002696	0.01065	36.98096	9.79E-05	0.000666	0.000646	0.000814
4	2025	Taxiway E	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	25.08842	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000383	0.001513	5.255233	1.39E-05	9.46E-05	9.18E-05	0.000116
4	2025	Taxiway E	Subbase P	Roller	Rollers100	Diesel	100	0.59	24.44492	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000544	0.001765	0.947656	2.56E-06	8.73E-05	8.47E-05	4.42E-05
4	2025	Taxiway E	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	32.63467	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000345	0.001066	1.993792	5.31E-06	8.47E-05	8.21E-05	5.32E-05
4	2025	Taxiway E	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	32.63467	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000498	0.001969	6.835934	1.81E-05	0.000123	0.000119	0.00015
4	2025	Taxiway E	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	32.63467	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000498	0.001969	6.835934	1.81E-05	0.000123	0.000119	0.00015
5	2025	Building -	Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.017899	0.018314	5.14791	1.54E-05	0.002379	0.002307	0.002664
5	2025	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
5	2025	Building -	Concrete F	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	320	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.01158	0.028309	12.40404	3.42E-05	0.001735	0.001682	0.001051
5	2025	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001222	0.004826	16.75748	4.43E-05	0.000302	0.000293	0.000369
5	2025	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
5	2025	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000153	0.000603	2.094685	5.54E-06	3.77E-05	3.66E-05	4.61E-05
5	2025	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.11E-05	0.000241	0.837874	2.22E-06	1.51E-05	1.46E-05	1.84E-05
5	2025	Building -	Exterior W	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	240	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.008685	0.021232	9.303029	2.57E-05	0.001301	0.001262	0.000788
5	2025	Building -	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.001951	0.011204	2.483012	6.83E-06	0.000209	0.000203	0.000343
5	2025	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
5	2025	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
5	2025	Building -	Interior Bu	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	960	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.034739	0.084928	37.21212	0.000103	0.005204	0.005047	0.003153
5	2025	Building -	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.007804	0.044815	9.932046	2.73E-05	0.000835	0.00081	0.001374
5	2025	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001832	0.007239	25.13622	6.65E-05	0.000453	0.000439	0.000553
5	2025	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001832	0.007239	25.13622	6.65E-05	0.000453	0.000439	0.000553
5	2025	Building -	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.003415	0.009548	4.651779	1.27E-05	0.000515	0.0005	0.000304
5	2025	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.000975	0.005602	1.241506	3.42E-06	0.000104	0.000101	0.000172
5	2025	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000122	0.000483	1.675748	4.43E-06	3.02E-05	2.93E-05	3.69E-05
5	2025	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000183	0.000724	2.513622	6.65E-06	4.53E-05	4.39E-05	5.53E-05
5	2025	Building -	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.009106	0.025462	12.40474	3.39E-05	0.001374	0.001332	0.000812

5	2025	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001222	0.004826	16.75748	4.43E-05	0.000302	0.000293	0.000369
5	2025	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.08211	0.329949	530.9715	0.001437	0.017749	0.017217	0.024289	0.002802	0.01126	18.12085	4.9E-05	0.000606	0.000588	0.000829
5	2025	Building -	Structural	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	120	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.004342	0.010616	4.651514	1.28E-05	0.00065	0.000631	0.000394
5	2025	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
5	2025	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
6	2025	Building -	Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.017899	0.018314	5.14791	1.54E-05	0.002379	0.002307	0.002664
6	2025	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
6	2025	Building -	Concrete F	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	320	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.01158	0.028309	12.40404	3.42E-05	0.001735	0.001682	0.001051
6	2025	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001222	0.004826	16.75748	4.43E-05	0.000302	0.000293	0.000369
6	2025	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
6	2025	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000153	0.000603	2.094685	5.54E-06	3.77E-05	3.66E-05	4.61E-05
6	2025	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.11E-05	0.000241	0.837874	2.22E-06	1.51E-05	1.46E-05	1.84E-05
6	2025	Building -	Exterior W	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	240	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.008685	0.021232	9.303029	2.57E-05	0.001301	0.001262	0.000788
6	2025	Building -	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.001951	0.011204	2.483012	6.83E-06	0.000209	0.000203	0.000343
6	2025	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
6	2025	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
6	2025	Building -	Interior Bu	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	960	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.034739	0.084928	37.21212	0.000103	0.005204	0.005047	0.003153
6	2025	Building -	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.007804	0.044815	9.932046	2.73E-05	0.000835	0.00081	0.001374
6	2025	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001832	0.007239	25.13622	6.65E-05	0.000453	0.000439	0.000553
6	2025	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001832	0.007239	25.13622	6.65E-05	0.000453	0.000439	0.000553
6	2025	Building -	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.003415	0.009548	4.651779	1.27E-05	0.000515	0.0005	0.000304
6	2025	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.000975	0.005602	1.241506	3.42E-06	0.000104	0.000101	0.000172
6	2025	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000122	0.000483	1.675748	4.43E-06	3.02E-05	2.93E-05	3.69E-05
6	2025	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000183	0.000724	2.513622	6.65E-06	4.53E-05	4.39E-05	5.53E-05
6	2025	Building -	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.009106	0.025462	12.40474	3.39E-05	0.001374	0.001332	0.000812
6	2025	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001222	0.004826	16.75748	4.43E-05	0.000302	0.000293	0.000369
6	2025	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.08211	0.329949	530.9715	0.001437	0.017749	0.017217	0.024289	0.002802	0.01126	18.12085	4.9E-05	0.000606	0.000588	0.000829
6	2025	Building -	Structural	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	120	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.004342	0.010616	4.651514	1.28E-05	0.00065	0.000631	0.000394
6	2025	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
6	2025	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
1	2025	Demolitio	Asphalt De	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	68.04	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.00072	0.002221	4.156856	1.11E-05	0.000177	0.000171	0.000111
1	2025	Demolitio	Asphalt De	Excavator	Excavators175	Diesel	175	0.59	68.04	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000569	0.001894	4.156922	1.1E-05	0.000136	0.000131	8.98E-05
1	2025	Demolitio	Asphalt De	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	136.08	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002078	0.008209	28.50447	7.54E-05	0.000513	0.000498	0.000627
2	2025	Access Roa	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	6.74325	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000104	0.000273	0.41196	1.11E-06	2.64E-05	2.56E-05	1.58E-05
2	2025	Access Roa	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	24.28633	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000371	0.001465	5.087219	1.35E-05	9.16E-05	8.88E-05	0.000112
2	2025	Access Roa	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	13.4865	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000252	0.000777	0.600422	1.66E-06	6.12E-05	5.94E-05	4.45E-05
2	2025	Access Roa	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.74325	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000103	0.000407	1.412498	3.74E-06	2.54E-05	2.47E-05	3.11E-05
2	2025	Access Roa	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	6.74325	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.00015	0.000487	0.261415	7.07E-07	2.41E-05	2.34E-05	1.22E-05
2	2025	Access Roa	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	6.74325	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.000353	0.000462	0.081284	2.53E-07	4.82E-05	4.68E-05	6.74E-05
2	2025	Access Roa	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	8.63136	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.00021	0.000528	0.083523	3.07E-07	2.4E-05	2.33E-05	4.94E-05
2	2025	Access Roa	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	18	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000377	0.000639	0.090715	3.34E-07	3.67E-05	3.56E-05	0.000128
2	2025	Access Roa	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	18	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.000475	0.001161	0.508513	1.4E-06	7.11E-05	6.9E-05	4.31E-05
2	2025	Access Roa	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
2	2025	Access Roa	Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	17.9824	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.000474	0.001159	0.508016	1.4E-06	7.1E-05	6.89E-05	4.31E-05
2	2025	Access Roa	Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	17.9824	0.302419	2.549508	595.8721	0.001576	0.02584	0.025065	0.095301	0.000141	0.001193	0.278753	7.37E-07	1.21E-05	1.17E-05	4.46E-05
2	2025	Access Roa	Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	74.92667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001144	0.00452	15.69477	4.15E-05	0.000283	0.000274	0.000345
2	2025	Access Roa	Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	35.9648	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000672	0.002071	1.601161	4.42E-06	0.000163	0.000158	0.000119
2	2025	Access Roa	Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	53.9472	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000824	0.003254	11.30024	2.99E-05	0.000203	0.000197	0.000249
2	2025	Access Roa	Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	17.9824	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.002018	0.003612	1.280781	3.82E-06	0.000456	0.000442	0.000529
2	2025	Access Roa	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	17.9824	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000277	0.000728	1.098585	2.96E-06	7.03E-05	6.82E-05	4.2E-05
2	2025	Access Roa	Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	17.9824	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.000437	0.0011	0.174009	6.4E-07	5.01E-05	4.86E-05	0.000103
2	2025	Access Roa	Curbing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	64.8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00099	0.003909	13.57356	3.59E-05	0.000244	0.000237	0.000299
2	2025	Access Roa	Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	64.8	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000998	0.002624	3.958779	1.07E-05	0.000253	0.000246	0.000151
2	2025	Access Roa	Curbing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	64.8	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.00121	0.003732	2.884911	7.96E-06	0.000294	0.000285	0.000214
2	2025	Access Roa	Curbing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	64.8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00099	0.003909	13.57356	3.59E-05	0.000244	0.000237	0.000299
2	2025	Access Roa	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	52.16	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000552	0.001703	3.186679	8.49E-06	0.000135	0.000131	8.5E-05
2	2025	Access Roa	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	52.16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000797	0.003146	10.92588	2.89E-05	0.000197	0.000191	0.00024
2	2025	Access Roa	Drainage -	Excavator	Excavators175	Diesel	175	0.59	52.16	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000437	0.001452	3.18673	8.45E-06	0.000104	0.000101	6.88E-05
2	2025	Access Roa	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	52.16	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.005853	0.010476	3.715051	1.11E-05	0.001322	0.001282	0.001535
2	2025	Access Roa	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	52.16	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000974	0.003004	2.322176	6.41E-06	0.000237	0.00023	0.000172
2	2025	Access Roa	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	52.16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000797	0.003146	10.92588	2.89E-05	0.000197	0.000191	0.00024
2	2025	Access Roa	Drainage -	Roller	Rollers100	Diesel	100	0.59	52.16	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.001161	0.003766	2.022085	5.47E-06	0.000186	0.000181	9.44E-05
2	2025	Access Roa	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	28.97778	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000443	0.001748	6.069931	1.61E-05	0.000109	0.000106	0.000134
2	2025	Access Roa	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	28.97778	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.003251	0.00582	2.063917	6.16E-06	0.000734	0.000712	0.000853
2	2025	Access Roa	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	28.97778	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000541	0.001669	1.290098	3.56E-06	0.000132	0.000128	9.56E-05
2	2025	Access Roa	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	28.97778	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000443	0.001748	6.069931	1.61E-05	0.000109	0.000106	0.000134
2	2025	Access Roa	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	28.97778	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.001621	0.001658	0.466172	1.39E-06	0.000215	0.000209	0.000241
2	2025	Access Roa	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	2160	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.032985	0.130298	452.4519	0.001197	0.008146	0.007902	0.009956
2	2025	Access Roa	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	29.97067	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000317	0.000979	1.831037	4.88E-06	7.78E-05	7.54E-05	4.88E-05
2	2025	Access Roa	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	29.97067	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000458	0.001808	6.27791	1.66E-05	0.000113	0.00011	0.000138
2	2025	Access Roa	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	29.97067	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000458	0.001808	6.27791	1.66E-05	0.000113	0.00011	0.000138
2	2025	Access Roa	Excavatior	Roller	Rollers100	Diesel	100	0.59	13.83262	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000308	0.000999	0.536249	1.45E-06	4.94E-05	4.79E-05	2.5E-05
2	2025	Access Roa	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	22.478	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000238	0.000734	1.373278	3.66E-06	5.83E-05	5.66E-05	3.66E-05
2	2025	Access Roa	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	59.94133	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000915	0.003616	12.55582	3.32E-05	0.000226	0.000219	0.000276
2	2025	Access Roa	Excavatior	Excavator	Excavators175	Diesel	175	0.59	17.9824	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.000151	0.000501	1.09864	2.91E-06	3.58E-05	3.47E-05	2.37E-05
2	2025	Access Roa	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	17.9824	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000275	0.001085	3.766746	9.97E-06	6.78E-05	6.58E-05	8.29E-05
2	2025	Access Roa	Excavatior	Roller	Rollers100	Diesel	100	0.59	17.9824	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.0004	0.001298	0.697123	1.89E-06	6.42E-05	6.23E-05	3.25E-05
2	2025	Access Roa	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	22.478	0.193562	0.494954	536.7416	0.001476	0.034439	0.033406	0.030256	0.001698	0.004341	4.707959	1.29E-05	0.000302	0.000293	0.000265
2	2025	Access Roa	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	8.462118	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	8.95E-05	0.000276	0.516987	1.38E-06	2.2E-05	2.13E-05	1.38E-05
2	2025	Access Roa	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	18	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000275	0.001086	3.770432	9.98E-06	6.79E-05	6.58E-05	8.3E-05
2	2025	Access Roa	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	72	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001099	0.004343	15.08173	3.99E-05	0.000272	0.000263	0.000332
2	2025	Access Roa	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	72	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.001345	0.004146	3.205457	8.84E-06	0.000327	0.000317	0.000238
2	2025	Access Roa	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	72	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001099	0.004343	15.08173	3.99E-05	0.000272	0.000263	0.000332
2	2025	Access Roa	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	72	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.00377	0.004936	0.867896	2.7E-06	0.000515	0.0005	0.00072

2	2025	Access Ro	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	72	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.004027	0.004121	1.15828	3.46E-06	0.000535	0.000519	0.000599
2	2025	Access Ro	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	7.2372	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	7.66E-05	0.000236	0.442152	1.18E-06	1.88E-05	1.82E-05	1.18E-05
2	2025	Access Ro	Grading	Grader	Graders300	Diesel	300	0.59	7.2372	0.050706	0.18307	536.7878	0.001426	0.012448	0.012074	0.014259	7.16E-05	0.000259	0.757972	2.01E-06	1.76E-05	1.7E-05	2.01E-05
2	2025	Access Ro	Grading	Roller	Rollers100	Diesel	100	0.59	7.2372	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000161	0.000523	0.280564	7.59E-07	2.58E-05	2.51E-05	1.31E-05
2	2025	Access Ro	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	6.52	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	0.001543	0.003316	1.365207	4.07E-06	0.000249	0.000242	0.000212
2	2025	Access Ro	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	6.52	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	9.96E-05	0.000393	1.365734	3.61E-06	2.46E-05	2.39E-05	3.01E-05
2	2025	Access Ro	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	111.0857	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001696	0.006701	23.26895	6.16E-05	0.000419	0.000406	0.000512
2	2025	Access Ro	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	111.0857	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.002075	0.006397	4.945562	1.36E-05	0.000504	0.000489	0.000366
2	2025	Access Ro	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	111.0857	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001696	0.006701	23.26895	6.16E-05	0.000419	0.000406	0.000512
2	2025	Access Ro	Sidewalks	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	129.6	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001979	0.007818	27.14711	7.18E-05	0.000489	0.000474	0.000597
2	2025	Access Ro	Sidewalks	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	129.6	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001979	0.007818	27.14711	7.18E-05	0.000489	0.000474	0.000597
2	2025	Access Ro	Sidewalks	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	129.6	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001979	0.007818	27.14711	7.18E-05	0.000489	0.000474	0.000597
2	2025	Access Ro	Sidewalks	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	129.6	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.007249	0.007417	2.084904	6.23E-06	0.000963	0.000934	0.001079
2	2025	Access Ro	Sidewalks	Vibratory Compactor	Plate Compactors6	Diesel	6	0.43	129.6	2.527845	4.190847	588.0067	0.002162	0.254101	0.246479	0.823845	0.000932	0.001545	0.216727	7.97E-07	9.37E-05	9.08E-05	0.000304
2	2025	Access Ro	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	6	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000112	0.000346	0.267121	7.37E-07	2.72E-05	2.64E-05	1.98E-05
2	2025	Access Ro	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000183	0.000724	2.513622	6.65E-06	4.53E-05	4.39E-05	5.53E-05
2	2025	Access Ro	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	6	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	7.73E-05	0.000131	0.018575	6.83E-08	7.52E-06	7.3E-06	2.62E-05
2	2025	Access Ro	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	6	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000336	0.000343	0.096523	2.88E-07	4.46E-05	4.33E-05	4.99E-05
2	2025	Access Ro	Street Ligt	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	43.2	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00066	0.002606	9.049038	2.39E-05	0.000163	0.000158	0.000199
2	2025	Access Ro	Street Ligt	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	43.2	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.004847	0.008677	3.076883	9.18E-06	0.001095	0.001062	0.001272
2	2025	Access Ro	Street Ligt	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	43.2	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000807	0.002488	1.923274	5.3E-06	0.000196	0.00019	0.000143
2	2025	Access Ro	Street Ligt	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	43.2	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00066	0.002606	9.049038	2.39E-05	0.000163	0.000158	0.000199
2	2025	Access Ro	Street Ligt	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	43.2	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.002262	0.002962	0.520738	1.62E-06	0.000309	0.0003	0.000432
2	2025	Access Ro	Street Ligt	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	43.2	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.002416	0.002472	0.694968	2.08E-06	0.000321	0.000311	0.00036
2	2025	Access Ro	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	11.35705	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.00012	0.000371	0.693851	1.85E-06	2.95E-05	2.86E-05	1.85E-05
2	2025	Access Ro	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	79.92	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.00122	0.004821	16.74072	4.43E-05	0.000301	0.000292	0.000368
2	2025	Access Ro	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	11.35705	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000173	0.000685	2.378944	6.3E-06	4.28E-05	4.15E-05	5.23E-05
2	2025	Access Ro	Subbase P	Roller	Rollers100	Diesel	100	0.59	11.06585	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000246	0.000799	0.428989	1.16E-06	3.95E-05	3.83E-05	2E-05
2	2025	Access Ro	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	16.08267	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.00017	0.000525	0.982559	2.62E-06	4.17E-05	4.05E-05	2.62E-05
2	2025	Access Ro	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	16.08267	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000246	0.00097	3.368812	8.92E-06	6.07E-05	5.88E-05	7.41E-05
2	2025	Access Ro	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	16.08267	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000246	0.00097	3.368812	8.92E-06	6.07E-05	5.88E-05	7.41E-05
2	2025	Access Ro	Tree Plant	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	0	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0	0	0	0	0	0	0
2	2025	Access Ro	Tree Plant	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	0	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0	0	0	0	0	0	0
2	2025	Access Ro	Tree Plant	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0	0	0	0	0	0	0
2	2025	Access Ro	Tree Plant	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	0	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0	0	0	0	0	0	0
3	2025	Access Ro	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	0.124875	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	1.92E-06	5.06E-06	0.007629	2.05E-08	4.88E-07	4.74E-07	2.92E-07
3	2025	Access Ro	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	0.449747	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.87E-06	2.71E-05	0.094208	2.49E-07	1.7E-06	1.65E-06	2.07E-06
3	2025	Access Ro	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	0.24975	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	4.66E-06	1.44E-05	0.011119	3.07E-08	1.13E-06	1.1E-06	8.24E-07
3	2025	Access Ro	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0.124875	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	1.91E-06	7.53E-06	0.026157	6.92E-08	4.71E-07	4.57E-07	5.76E-07
3	2025	Access Ro	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	0.124875	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	2.78E-06	9.02E-06	0.004841	1.31E-08	4.46E-07	4.32E-07	2.26E-07
3	2025	Access Ro	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	0.124875	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	6.54E-06	8.56E-06	0.001505	4.68E-09	8.93E-07	8.67E-07	1.25E-06
3	2025	Access Ro	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	0.15984	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	3.88E-06	9.78E-06	0.001547	5.69E-09	4.45E-07	4.32E-07	9.15E-07
3	2025	Access Ro	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	1.2	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	2.52E-05	4.26E-05	0.006048	2.22E-08	2.45E-06	2.38E-06	8.53E-06
3	2025	Access Ro	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	1.2	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	3.16E-05	7.74E-05	0.033901	9.36E-08	4.74E-06	4.6E-06	2.87E-06
3	2025	Access Ro	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	1.6	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	2.44E-05	9.65E-05	0.33515	8.87E-07	6.03E-06	5.85E-06	7.37E-06
3	2025	Access Ro	Concrete f	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	0.3328	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	8.78E-06	2.15E-05	0.009402	2.59E-08	1.31E-06	1.28E-06	7.97E-07
3	2025	Access Ro	Concrete f	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	0.3328	0.302419	2.549508	595.8721	0.001576	0.02584	0.025065	0.095301	2.62E-06	2.21E-05	0.005159	1.36E-08	2.24E-07	2.17E-07	8.25E-07
3	2025	Access Ro	Concrete f	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	1.386667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	2.12E-05	8.36E-05	0.290463	7.69E-07	5.23E-06	5.07E-06	6.39E-06
3	2025	Access Ro	Concrete f	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	0.6656	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	1.24E-05	3.83E-05	0.029633	8.17E-08	3.02E-06	2.93E-06	2.2E-06
3	2025	Access Ro	Concrete f	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0.9984	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	1.52E-05	6.02E-05	0.209133	5.53E-07	3.77E-06	3.65E-06	4.6E-06
3	2025	Access Ro	Concrete f	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	0.3328	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	3.73E-05	6.68E-05	0.023703	7.07E-08	8.43E-06	8.18E-06	9.8E-06
3	2025	Access Ro	Concrete f	Slip Form Paver	Pavers175	Diesel	175	0.59	0.3328	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	5.13E-06	1.35E-05	0.020332	5.48E-08	1.3E-06	1.26E-06	7.78E-07
3	2025	Access Ro	Concrete f	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	0.3328	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	8.08E-06	2.04E-05	0.00322	1.18E-08	9.27E-07	8.99E-07	1.9E-06
3	2025	Access Ro	Curbing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000183	0.000724	2.513622	6.65E-06	4.53E-05	4.39E-05	5.53E-05
3	2025	Access Ro	Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	12	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000185	0.000486	0.733107	1.97E-06	4.69E-05	4.55E-05	2.81E-05
3	2025	Access Ro	Curbing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	12	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000224	0.000691	0.534243	1.47E-06	5.45E-05	5.29E-05	3.96E-05
3	2025	Access Ro	Curbing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000183	0.000724	2.513622	6.65E-06	4.53E-05	4.39E-05	5.53E-05
3	2025	Access Ro	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	9.92	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000105	0.000324	0.606055	1.61E-06	2.57E-05	2.5E-05	1.62E-05
3	2025	Access Ro	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	9.92	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000151	0.000598	2.077927	5.5E-06	3.74E-05	3.63E-05	4.57E-05
3	2025	Access Ro	Drainage -	Excavator	Excavators175	Diesel	175	0.59	9.92	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	8.3E-05	0.000276	0.606065	1.61E-06	1.98E-05	1.92E-05	1.31E-05
3	2025	Access Ro	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	9.92	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.001113	0.001992	0.706543	2.11E-06	0.000251	0.000244	0.000292
3	2025	Access Ro	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	9.92	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000185	0.000571	0.441641	1.22E-06	4.51E-05	4.37E-05	3.27E-05
3	2025	Access Ro	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	9.92	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000151	0.000598	2.077927	5.5E-06	3.74E-05	3.63E-05	4.57E-05
3	2025	Access Ro	Drainage -	Roller	Rollers100	Diesel	100	0.59	9.92	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000221	0.000716	0.384568	1.04E-06	3.54E-05	3.44E-05	1.8E-05
3	2025	Access Ro	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	5.511111	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	8.42E-05	0.000332	1.154404	3.06E-06	2.08E-05	2.02E-05	2.54E-05
3	2025	Access Ro	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	5.511111	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.000618	0.001107	0.392524	1.17E-06	0.00014	0.000135	0.000162
3	2025	Access Ro	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	5.511111	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000103	0.000317	0.245356	6.77E-07	2.5E-05	2.43E-05	1.82E-05
3	2025	Access Ro	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	5.511111	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	8.42E-05	0.000332	1.154404	3.06E-06	2.08E-05	2.02E-05	2.54E-05
3	2025	Access Ro	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	5.511111	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000308	0.000315	0.088658	2.65E-07	4.1E-05	3.97E-05	4.59E-05
3	2025	Access Ro	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	720	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.010995	0.043433	150.8173	0.000399	0.002715	0.002634	0.003319
3	2025	Access Ro	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	0.554667	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	5.87E-06	1.81E-05	0.033887	9.03E-08	1.44E-06	1.4E-06	9.03E-07
3	2025	Access Ro	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	0.554667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	8.47E-06	3.35E-05	0.116185	3.07E-07	2.09E-06	2.03E-06	2.56E-06
3	2025	Access Ro	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0.554667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	8.47E-06	3.35E-05	0.116185	3.07E-07	2.09E-06	2.03E-06	2.56E-06
3	2025	Access Ro	Excavatior	Roller	Rollers100	Diesel	100	0.59	0.256	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	5.7E-06	1.85E-05	0.009924	2.69E-08	9.14E-07	8.87E-07	4.63E-07
3	2025	Access Ro	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	0.416	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	4.4E-06	1.36E-05	0.025415	6.77E-08	1.08E-06	1.05E-06	6.78E-07
3	2025	Access Ro	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	1.109333	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	1.69E-05	6.69E-05	0.23237	6.15E-07	4.18E-06	4.06E-06	5.11E-06
3	2025	Access Ro	Excavatior	Excavator	Excavators175	Diesel	175	0.59	0.3328	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	2.79E-06	9.27E-06	0.020333	5.39E-08	6.63E-07	6.43E-07	4.39E-07
3	2025	Access Ro	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0.3328	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	5.08E-06	2.01E-05	0.069711	1.84E-07	1.26E-06	1.22E-06	1.53E-06
3	2025	Access Ro	Excavatior	Roller	Rollers100	Diesel	100	0.59	0.3328	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	7.41E-06	2.4E-05	0.012902	3.49E-08	1.19E-06	1.15E-06	6.02E-07
3	2025	Access Ro	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	0.416	0.193562	0.494954	536.7416	0.001476	0.034439	0.033406	0.030256	3.14E-05	8.03E-05	0.08713	2.4E-07	5.59E-06	5.42E-06	4.91E-06
3	2025	Access Ro	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	0.156706	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	1.66E-06	5.12E-06	0.009574	2.55E-08	4.07E-07	3.94E-07	2.55E-07
3	2025	Access Ro	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	3.333333	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	5.09E-05	0.000201	0.698228	1.85E-06	1.26E-05	1.22E-05	1.54E-05
3	2025	Access Ro	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	13.33333	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000204	0.000804	2.792913	7.39E-06	5.03E-05	4.88E-05	6.15E-05
3	2025	Access Ro	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	13.33333	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000249	0.000768	0.593603	1.64E-06	6.06E-05	5.87E-05	4.4E-05

3	2025	Access Ro	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	13.33333	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000204	0.000804	2.792913	7.39E-06	5.03E-05	4.88E-05	6.15E-05
3	2025	Access Ro	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	13.33333	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.000698	0.000914	0.160721	5E-07	9.54E-05	9.25E-05	0.000133
3	2025	Access Ro	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	13.33333	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000746	0.000763	0.214496	6.4E-07	9.91E-05	9.61E-05	0.000111
3	2025	Access Ro	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	0.4473	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	4.73E-06	1.46E-05	0.027327	7.28E-08	1.16E-06	1.13E-06	7.29E-07
3	2025	Access Ro	Grading	Grader	Graders300	Diesel	300	0.59	0.4473	0.050706	0.18307	536.7878	0.001426	0.012448	0.012074	0.014259	4.43E-06	1.6E-05	0.046847	1.24E-07	1.09E-06	1.05E-06	1.24E-06
3	2025	Access Ro	Grading	Roller	Rollers100	Diesel	100	0.59	0.4473	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	9.96E-06	3.23E-05	0.01734	4.69E-08	1.6E-06	1.55E-06	8.1E-07
3	2025	Access Ro	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	0.403	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	9.54E-05	0.000205	0.084383	2.52E-07	1.54E-05	1.49E-05	1.31E-05
3	2025	Access Ro	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	0.403	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.15E-06	2.43E-05	0.084416	2.23E-07	1.52E-06	1.47E-06	1.86E-06
3	2025	Access Ro	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	2.057143	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	3.14E-05	0.000124	0.430907	1.14E-06	7.76E-06	7.53E-06	9.48E-06
3	2025	Access Ro	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	2.057143	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	3.84E-05	0.000118	0.091584	2.53E-07	9.34E-06	9.06E-06	6.79E-06
3	2025	Access Ro	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	2.057143	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	3.14E-05	0.000124	0.430907	1.14E-06	7.76E-06	7.53E-06	9.48E-06
3	2025	Access Ro	Sidewalks	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
3	2025	Access Ro	Sidewalks	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
3	2025	Access Ro	Sidewalks	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
3	2025	Access Ro	Sidewalks	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	24	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.001342	0.001374	0.386093	1.15E-06	0.000178	0.000173	0.0002
3	2025	Access Ro	Sidewalks	Vibratory Compactor	Plate Compactors6	Diesel	6	0.43	24	2.527845	4.190847	588.0067	0.002162	0.254101	0.246479	0.823845	0.000173	0.000286	0.040135	1.48E-07	1.73E-05	1.68E-05	5.62E-05
3	2025	Access Ro	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	0.4	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	7.47E-06	2.3E-05	0.017808	4.91E-08	1.82E-06	1.76E-06	1.32E-06
3	2025	Access Ro	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0.8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	1.22E-05	4.83E-05	0.167575	4.43E-07	3.02E-06	2.93E-06	3.69E-06
3	2025	Access Ro	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	0.4	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	5.15E-06	8.73E-06	0.001238	4.55E-09	5.01E-07	4.86E-07	1.75E-06
3	2025	Access Ro	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	0.4	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	2.24E-05	2.29E-05	0.006435	1.92E-08	2.97E-06	2.88E-06	3.33E-06
3	2025	Access Ro	Street Ligh	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000122	0.000483	1.675748	4.43E-06	3.02E-05	2.93E-05	3.69E-05
3	2025	Access Ro	Street Ligh	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	8	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.000898	0.001607	0.569793	1.7E-06	0.000203	0.000197	0.000235
3	2025	Access Ro	Street Ligh	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	8	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000149	0.000461	0.356162	9.82E-07	3.63E-05	3.52E-05	2.64E-05
3	2025	Access Ro	Street Ligh	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000122	0.000483	1.675748	4.43E-06	3.02E-05	2.93E-05	3.69E-05
3	2025	Access Ro	Street Ligh	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	8	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.000419	0.000548	0.096433	3E-07	5.72E-05	5.55E-05	8E-05
3	2025	Access Ro	Street Ligh	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	8	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000447	0.000458	0.128698	3.84E-07	5.95E-05	5.77E-05	6.66E-05
3	2025	Access Ro	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	0.210316	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	2.23E-06	6.87E-06	0.012849	3.42E-08	5.46E-07	5.29E-07	3.43E-07
3	2025	Access Ro	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	1.48	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	2.26E-05	8.93E-05	0.310013	8.2E-07	5.58E-06	5.41E-06	6.82E-06
3	2025	Access Ro	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0.210316	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	3.21E-06	1.27E-05	0.044055	1.17E-07	7.93E-07	7.69E-07	9.69E-07
3	2025	Access Ro	Subbase P	Roller	Rollers100	Diesel	100	0.59	0.204923	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	4.56E-06	1.48E-05	0.007944	2.15E-08	7.32E-07	7.1E-07	3.71E-07
3	2025	Access Ro	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	0.994667	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	1.05E-05	3.25E-05	0.060768	1.62E-07	2.58E-06	2.5E-06	1.62E-06
3	2025	Access Ro	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	0.994667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	1.52E-05	6E-05	0.208351	5.51E-07	3.75E-06	3.64E-06	4.58E-06
3	2025	Access Ro	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0.994667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	1.52E-05	6E-05	0.208351	5.51E-07	3.75E-06	3.64E-06	4.58E-06
3	2025	Access Ro	Tree Plant	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	0	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0	0	0	0	0	0	0
3	2025	Access Ro	Tree Plant	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	0	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0	0	0	0	0	0	0
3	2025	Access Ro	Tree Plant	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0	0	0	0	0	0	0
3	2025	Access Ro	Tree Plant	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	0	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0	0	0	0	0	0	0
4	2025	Open Park	Binder Co	Paving Machine	Pavers175	Diesel	175	0.59	16	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000246	0.000648	0.977476	2.63E-06	6.26E-05	6.07E-05	3.74E-05
4	2025	Open Park	Binder Co	Ten Wheelers- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
4	2025	Open Park	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.11E-05	0.000241	0.837874	2.22E-06	1.51E-05	1.46E-05	1.84E-05
4	2025	Open Park	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.11E-05	0.000241	0.837874	2.22E-06	1.51E-05	1.46E-05	1.84E-05
4	2025	Open Park	Curbing	Bob Cat	Tractors/Loaders/Backhoes75	Diesel	75	0.21	24	2.197293	3.476923	694.8737	0.002104	0.273771	0.265558	0.384111	0.000916	0.001449	0.289537	8.77E-07	0.000114	0.000111	0.00016
4	2025	Open Park	Curbing	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
4	2025	Open Park	Curbing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
4	2025	Open Park	Curbing	Tractor Trailer with Boom Hoist- Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
4	2025	Open Park	Grub the s	Bulldozer	Crawler Tractor/Dozers175	Diesel	175	0.59	16	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000169	0.000522	0.977509	2.6E-06	4.15E-05	4.03E-05	2.61E-05
4	2025	Open Park	Grub the s	Front Loader	Tractors/Loaders/Backhoes100	Diesel	100	0.21	16	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000895	0.000916	0.257396	7.69E-07	0.000119	0.000115	0.000133
4	2025	Open Park	Grub the s	Ten Wheelers	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
4	2025	Open Park	Lighting Pr	Auger Drill	Other Construction Equipment175	Diesel	175	0.43	24	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000448	0.001382	1.068486	2.95E-06	0.000109	0.000106	7.92E-05
4	2025	Open Park	Lighting Pr	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	24	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.000868	0.002123	0.930303	2.57E-06	0.00013	0.000126	7.88E-05
4	2025	Open Park	Lighting Pr	Front Loader	Tractors/Loaders/Backhoes100	Diesel	100	0.21	24	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.001342	0.001374	0.386093	1.15E-06	0.000178	0.000173	0.0002
4	2025	Open Park	Lighting Pr	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000183	0.000724	2.513622	6.65E-06	4.53E-05	4.39E-05	5.53E-05
4	2025	Open Park	Remove Tı	Bulldozer	Crawler Tractor/Dozers175	Diesel	175	0.59	40	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000423	0.001306	2.443772	6.51E-06	0.000104	0.000101	6.52E-05
4	2025	Open Park	Remove Tı	Chain Saws	Other Construction Equipment11	Diesel	11	0.7	24	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000503	0.000852	0.120953	4.45E-07	4.9E-05	4.75E-05	0.000171
4	2025	Open Park	Remove Tı	Flat Bed or Dump Trucks	Off-highway Trucks600	Diesel	600	0.59	40	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000611	0.002413	8.378739	2.22E-05	0.000151	0.000146	0.000184
4	2025	Open Park	Remove Tı	Log Chipper	Other Construction Equipment100	Diesel	100	0.43	24	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.000633	0.001547	0.678017	1.87E-06	9.48E-05	9.2E-05	5.75E-05
4	2025	Open Park	Remove Tı	Mulcher	Other Construction Equipment100	Diesel	100	0.43	24	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.000633	0.001547	0.678017	1.87E-06	9.48E-05	9.2E-05	5.75E-05
4	2025	Open Park	Remove Tı	Tractor	Tractors/Loaders/Backhoes100	Diesel	100	0.21	40	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.002237	0.002289	0.643489	1.92E-06	0.000297	0.000288	0.000333
4	2025	Open Park	Rough Gra	Compacting Equipment	Plate Compactors6	Diesel	6	0.43	16	2.527845	4.190847	588.0067	0.002162	0.254101	0.246479	0.823845	0.000115	0.000191	0.026756	9.84E-08	1.16E-05	1.12E-05	3.75E-05
4	2025	Open Park	Rough Gra	Small Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	16	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000169	0.000522	0.977509	2.6E-06	4.15E-05	4.03E-05	2.61E-05
4	2025	Open Park	Set in-plac	40 Ton Rough Terrain Crane	Cranes300	Diesel	300	0.43	16	0.08211	0.329949	530.9715	0.001437	0.017749	0.017217	0.024289	0.000187	0.000751	1.208057	3.27E-06	4.04E-05	3.92E-05	5.53E-05
4	2025	Open Park	Set in-plac	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	16	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.000455	0.001273	0.620237	1.69E-06	6.87E-05	6.66E-05	4.06E-05
4	2025	Open Park	Set in-plac	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
4	2025	Open Park	Stripping	Line Painting Truck and Sprayer	Off-highway Trucks600	Diesel	600	0.59	8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000122	0.000483	1.675748	4.43E-06	3.02E-05	2.93E-05	3.69E-05
4	2025	Open Park	Subgrade I	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	16	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.000895	0.000916	0.257396	7.69E-07	0.000119	0.000115	0.000133
4	2025	Open Park	Subgrade I	Roller	Rollers100	Diesel	100	0.59	16	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000356	0.001155	0.620272	1.68E-06	5.71E-05	5.54E-05	2.9E-05
4	2025	Open Park	Subgrade I	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
4	2025	Open Park	Top Coat c	Paving Machine	Pavers175	Diesel	175	0.59	16	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.000246	0.000648	0.977476	2.63E-06	6.26E-05	6.07E-05	3.74E-05
4	2025	Open Park	Top Coat c	Ten Wheelers- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
4	2025	Open Park	Undergrou	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	24	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.001342	0.001374	0.386093	1.15E-06	0.000178	0.000173	0.0002
4	2025	Open Park	Undergrou	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	24	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.000868	0.002123	0.930303	2.57E-06	0.00013	0.000126	7.88E-05
4	2025	Open Park	Undergrou	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000183	0.000724	2.513622	6.65E-06	4.53E-05	4.39E-05	5.53E-05
5	2025	Fuel Tanks	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	65.55938	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.00101	0.002654	4.00517	1.08E-05	0.000256	0.000249	0.000153
5	2025	Fuel Tanks	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	236.1171	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003606	0.014243	49.45908	0.000131	0.00089	0.000864	0.001088
5	2025	Fuel Tanks	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	131.1188	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.002449	0.007551	5.837438	1.61E-05	0.000595	0.000578	0.000433
5	2025	Fuel Tanks	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	65.55938	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001001	0.003955	13.73262	3.63E-05	0.000247	0.00024	0.000302
5	2025	Fuel Tanks	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	65.55938	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.00146	0.004734	2.541538	6.88E-06	0.000234	0.000227	0.000119
5	2025	Fuel Tanks	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	65.55938	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.003432	0.004494	0.79026	2.46E-06	0.000469	0.000455	0.000656
5	2025	Fuel Tanks	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	83.916	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.002038	0.005135	0.812025	2.99E-06	0.000234	0.000227	0.00048
5	2025	Fuel Tanks	Clearing ar	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	144	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.003019	0.005113	0.725719	2.67E-06	0.000294	0.000285	0.001024
5	2025	Fuel Tanks	Clearing ar	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	144	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.003798	0.009284	4.068104	1.12E-05	0.000569	0.000552	0.000345
5	2025	Fuel Tanks	Clearing ar	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	192	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002932	0.011582	40.21795	0.000106	0.000724	0.000702	0.000885
5	2025	Fuel Tanks	Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	174.8248	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.004611	0.011272	4.938927	1.36E-05	0.000691	0.00067	0.000419
5	2025	Fuel Tanks	Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	174.8248	0.302419	2.549508	595.8721	0.001576	0.02584	0.025065	0.095301	0.001375	0.011595	2.710033	7.17E-06	0.000118	0.000114	0.000433

5	2025	Fuel Tanks	Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	728.4367	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.011124	0.043941	152.5845	0.000404	0.002747	0.002665	0.003357
5	2025	Fuel Tanks	Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	349.6496	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.006531	0.020136	15.56648	4.29E-05	0.001588	0.00154	0.001153
5	2025	Fuel Tanks	Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	524.4744	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.008009	0.031638	109.8608	0.000291	0.001978	0.001919	0.002417
5	2025	Fuel Tanks	Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	174.8248	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.019616	0.035114	12.45175	3.72E-05	0.004431	0.004298	0.005146
5	2025	Fuel Tanks	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	174.8248	0.135357	0.355738	536.7717	0.001446	0.034367	0.033336	0.02054	0.002693	0.007078	10.68044	2.88E-05	0.000684	0.000663	0.000409
5	2025	Fuel Tanks	Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	174.8248	1.493648	3.763477	595.1496	0.002188	0.171289	0.16615	0.352023	0.004246	0.010698	1.691717	6.22E-06	0.000487	0.000472	0.001001
5	2025	Fuel Tanks	Constructi	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	32	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000598	0.001843	1.424648	3.93E-06	0.000145	0.000141	0.000106
5	2025	Fuel Tanks	Constructi	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	32	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000489	0.00193	6.702991	1.77E-05	0.000121	0.000117	0.000147
5	2025	Fuel Tanks	Drainage -	Excavator	Excavators175	Diesel	175	0.59	151.52	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.001268	0.004219	9.257156	2.45E-05	0.000302	0.000293	0.0002
5	2025	Fuel Tanks	Drainage	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	151.52	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.001603	0.004947	9.257008	2.47E-05	0.000393	0.000381	0.000247
5	2025	Fuel Tanks	Drainage	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	151.52	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002314	0.00914	31.73866	8.4E-05	0.000571	0.000554	0.000698
5	2025	Fuel Tanks	Drainage	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	151.52	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.017001	0.030433	10.79188	3.22E-05	0.00384	0.003725	0.00446
5	2025	Fuel Tanks	Drainage	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	151.52	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.00283	0.008726	6.745706	1.86E-05	0.000688	0.000667	0.0005
5	2025	Fuel Tanks	Drainage	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	151.52	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002314	0.00914	31.73866	8.4E-05	0.000571	0.000554	0.000698
5	2025	Fuel Tanks	Drainage	Roller	Rollers100	Diesel	100	0.59	151.52	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.003374	0.010941	5.873971	1.59E-05	0.000541	0.000525	0.000274
5	2025	Fuel Tanks	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	2160	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.032985	0.130298	452.4519	0.001197	0.008146	0.007902	0.009956
5	2025	Fuel Tanks	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	2331	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.024666	0.076106	142.4108	0.000379	0.006047	0.005866	0.003797
5	2025	Fuel Tanks	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	2331	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.035596	0.140613	488.271	0.001292	0.008791	0.008527	0.010744
5	2025	Fuel Tanks	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	2331	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.035596	0.140613	488.271	0.001292	0.008791	0.008527	0.010744
5	2025	Fuel Tanks	Excavatior	Roller	Rollers100	Diesel	100	0.59	1075.846	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.023954	0.077682	41.70729	0.000113	0.003841	0.003726	0.001947
5	2025	Fuel Tanks	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	1748.25	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.018499	0.05708	106.8081	0.000285	0.004535	0.004399	0.002848
5	2025	Fuel Tanks	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	4662	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.071192	0.281225	976.542	0.002584	0.017582	0.017054	0.021488
5	2025	Fuel Tanks	Excavatior	Excavator	Excavators175	Diesel	175	0.59	1398.6	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.011706	0.038941	85.44785	0.000226	0.002786	0.002702	0.001846
5	2025	Fuel Tanks	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	1398.6	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.021358	0.084368	292.9626	0.000775	0.005274	0.005116	0.006446
5	2025	Fuel Tanks	Excavatior	Roller	Rollers100	Diesel	100	0.59	1398.6	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.03114	0.100987	54.21948	0.000147	0.004994	0.004844	0.002531
5	2025	Fuel Tanks	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	1748.25	0.193562	0.494954	536.7416	0.001476	0.034439	0.033406	0.030256	0.132049	0.337659	366.1665	0.001007	0.023494	0.02279	0.020641
5	2025	Fuel Tanks	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	82.27059	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000871	0.002686	5.026264	1.34E-05	0.000213	0.000207	0.000134
5	2025	Fuel Tanks	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	52.5	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000802	0.003167	10.99709	2.91E-05	0.000198	0.000192	0.000242
5	2025	Fuel Tanks	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	210	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003207	0.012668	43.98838	0.000116	0.000792	0.000768	0.000968
5	2025	Fuel Tanks	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	210	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.003922	0.012094	9.34925	2.58E-05	0.000954	0.000925	0.000693
5	2025	Fuel Tanks	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	210	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003207	0.012668	43.98838	0.000116	0.000792	0.000768	0.000968
5	2025	Fuel Tanks	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	210	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.010995	0.014396	2.531363	7.87E-06	0.001503	0.001457	0.0021
5	2025	Fuel Tanks	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	210	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.011746	0.012019	3.378316	1.01E-05	0.001561	0.001514	0.001748
5	2025	Fuel Tanks	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	57.8144	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000612	0.001888	3.53213	9.41E-06	0.00015	0.000145	9.42E-05
5	2025	Fuel Tanks	Grading	Grader	Graders300	Diesel	300	0.59	57.8144	0.050706	0.18307	536.7878	0.001426	0.012448	0.012074	0.014259	0.000572	0.002065	6.05506	1.61E-05	0.00014	0.000136	0.000161
5	2025	Fuel Tanks	Grading	Roller	Rollers100	Diesel	100	0.59	57.8144	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.001287	0.004175	2.241289	6.06E-06	0.000206	0.0002	0.000105
5	2025	Fuel Tanks	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	52.085	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	0.01233	0.026489	10.90595	3.25E-05	0.00199	0.00193	0.001691
5	2025	Fuel Tanks	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	52.085	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000795	0.003142	10.91017	2.89E-05	0.000196	0.000191	0.00024
5	2025	Fuel Tanks	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	1080	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.016492	0.065149	226.2259	0.000599	0.004073	0.003951	0.004978
5	2025	Fuel Tanks	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	1080	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.020172	0.062197	48.08186	0.000133	0.004905	0.004758	0.003563
5	2025	Fuel Tanks	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	1080	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.016492	0.065149	226.2259	0.000599	0.004073	0.003951	0.004978
5	2025	Fuel Tanks	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	48	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000897	0.002764	2.136971	5.89E-06	0.000218	0.000211	0.000158
5	2025	Fuel Tanks	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	96	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001466	0.005791	20.10897	5.32E-05	0.000362	0.000351	0.000442
5	2025	Fuel Tanks	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	48	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000618	0.001047	0.1486	5.46E-07	6.02E-05	5.84E-05	0.00021
5	2025	Fuel Tanks	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	48	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.002685	0.002747	0.772187	2.31E-06	0.000357	0.000346	0.0004
5	2025	Fuel Tanks	Street Ligh	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	31.46667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000481	0.001898	6.591274	1.74E-05	0.000119	0.000115	0.000145
5	2025	Fuel Tanks	Street Ligh	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	31.46667	0.98587	1.764742	625.7929	0.001867	0.222675	0.215995	0.258629	0.003531	0.00632	2.241186	6.69E-06	0.000797	0.000774	0.000926
5	2025	Fuel Tanks	Street Ligh	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	31.46667	0.22517	0.694274	536.7159	0.00148	0.054749	0.053107	0.039769	0.000588	0.001812	1.400903	3.86E-06	0.000143	0.000139	0.000104
5	2025	Fuel Tanks	Street Ligh	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	31.46667	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000481	0.001898	6.591274	1.74E-05	0.000119	0.000115	0.000145
5	2025	Fuel Tanks	Street Ligh	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	31.46667	3.015688	3.94864	694.3015	0.002158	0.412121	0.399757	0.576121	0.001647	0.002157	0.379303	1.18E-06	0.000225	0.000218	0.000315
5	2025	Fuel Tanks	Street Ligh	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	31.46667	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.00176	0.001801	0.506211	1.51E-06	0.000234	0.000227	0.000262
5	2025	Fuel Tanks	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	110.4158	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.001168	0.003605	6.745775	1.8E-05	0.000286	0.000278	0.00018
5	2025	Fuel Tanks	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	777	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.011865	0.046871	162.757	0.000431	0.00293	0.002842	0.003581
5	2025	Fuel Tanks	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	110.4158	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001686	0.006661	23.12863	6.12E-05	0.000416	0.000404	0.000509
5	2025	Fuel Tanks	Subbase P	Roller	Rollers100	Diesel	100	0.59	107.5846	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.002395	0.007768	4.170729	1.13E-05	0.000384	0.000373	0.000195
5	2025	Fuel Tanks	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	256.9533	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.002719	0.008389	15.69838	4.18E-05	0.000667	0.000647	0.000419
5	2025	Fuel Tanks	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	256.9533	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003924	0.0155	53.82362	0.000142	0.000969	0.00094	0.001184
5	2025	Fuel Tanks	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	256.9533	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003924	0.0155	53.82362	0.000142	0.000969	0.00094	0.001184
6	2025	Building -	Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	480	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.026848	0.027471	7.721866	2.31E-05	0.003568	0.003461	0.003996
6	2025	Building -	Concrete F	Concrete Pump	Other Construction Equipment11	Diesel	11	0.43	180	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.002318	0.003926	0.557248	2.05E-06	0.000226	0.000219	0.000786
6	2025	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	360	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.005497	0.021716	75.40865	0.0002	0.001358	0.001317	0.001659
6	2025	Building -	Concrete F	Excavator	Excavators175	Diesel	175	0.59	160	0.073539	0.244632	536.7982	0.001423	0.0175	0.016975	0.011596	0.001339	0.004455	9.775244	2.59E-05	0.000319	0.000309	0.000211
6	2025	Building -	Concrete F	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	480	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.017369	0.042464	18.60606	5.14E-05	0.002602	0.002524	0.001577
6	2025	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001832	0.007239	25.13622	6.65E-05	0.000453	0.000439	0.000553
6	2025	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	240	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.003665	0.014478	50.27243	0.000133	0.000905	0.000878	0.001106
6	2025	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000153	0.000603	2.094685	5.54E-06	3.77E-05	3.66E-05	4.61E-05
6	2025	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.11E-05	0.000241	0.837874	2.22E-06	1.51E-05	1.46E-05	1.84E-05
6	2025	Building -	Exterior W	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	840	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.030396	0.074312	32.5606	8.99E-05	0.004553	0.004417	0.002759
6	2025	Building -	Exterior W	Generator	Other Construction Equipment40	Diesel	40	0.43	80	0.302419	2.549508	595.8721	0.001576	0.02584	0.025065	0.095301	0.000459	0.003867	0.903812	2.39E-06	3.92E-05	3.8E-05	0.000145
6	2025	Building -	Exterior W	Grout Mixer	Other Construction Equipment600	Diesel	600	0.59	420	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	0.099422	0.213598	87.94275	0.000262	0.016043	0.015562	0.013634
6	2025	Building -	Exterior W	Grout Wheel Truck	Off-highway Trucks600	Diesel	600	0.59	160	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002443	0.009652	33.51495	8.87E-05	0.000603	0.000585	0.000737
6	2025	Building -	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	1680	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.013656	0.078426	17.38108	4.78E-05	0.001462	0.001418	0.002404
6	2025	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	420	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.006414	0.025336	87.97676	0.000233	0.001584	0.001536	0.001936
6	2025	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	840	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.012827	0.050671	175.9535	0.000466	0.003168	0.003073	0.003872
6	2025	Building -	Exterior W	Truck Tower (Mantiwoc type)	Off-highway Trucks300	Diesel	300	0.43	80	0.020751	0.114516	536.8026	0.001414	0.006672	0.006472	0.009732	0.000236	0.001303	6.106619	1.61E-05	7.59E-05	7.36E-05	0.000111
6	2025	Building -	Interior Bu	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	1600	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.057898	0.141546	62.02019	0.000171	0.008673	0.008412	0.005256
6	2025	Building -	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	3200	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.026012	0.149382	33.10682	9.11E-05	0.002784	0.002701	0.004579
6	2025	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	1600	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.024433	0.096517	335.1495	0.000887	0.006034	0.005853	0.007375
6	2025	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	1600	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.024433	0.096517	335.1495	0.000887	0.006034	0.005853	0.007375
6	2025	Building -	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	160	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.004553	0.012731	6.202372	1.69E-05	0.000687	0.000666	0.000406
6	2025	Building -	Roofing	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	40	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.000325	0.001867	0.413835	1.14E-06	3.48E-05	3.38E-05	5.72E-05
6	2025	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
6	2025	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	40	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000611	0.002413	8.378739	2.22E-05	0.000151	0.000146	0.000184
6	2025	Building -	Roofing	Truck Tower (Mantiwoc type)	Off-highway Trucks300	Diesel	300	0.43	120	0.020751	0.114516	536.8026	0.001414	0.006672	0.006472	0.009732	0.000354	0.001954	9.159929	2.41E-05	0.000114	0.00011	0.000166

6	2025	Building -	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	800	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.022764	0.063655	31.01186	8.47E-05	0.003434	0.003331	0.002029
6	2025	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	800	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.012217	0.048258	167.5748	0.000443	0.003017	0.002926	0.003687
6	2025	Building -	Structural	90 Ton Crane	Cranes300	Diesel	300	0.43	240	0.08211	0.329949	530.9715	0.001437	0.017749	0.017217	0.024289	0.002802	0.01126	18.12085	4.9E-05	0.000606	0.000588	0.000829
6	2025	Building -	Structural	Concrete Pump	Other Construction Equipment11	Diesel	11	0.43	60	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000773	0.001309	0.185749	6.83E-07	7.52E-05	7.3E-05	0.000262
6	2025	Building -	Structural	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
6	2025	Building -	Structural	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	640	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.023159	0.056619	24.80808	6.85E-05	0.003469	0.003365	0.002102
6	2025	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	160	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.002443	0.009652	33.51495	8.87E-05	0.000603	0.000585	0.000737
6	2025	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	360	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.005497	0.021716	75.40865	0.0002	0.001358	0.001317	0.001659
6	2025	Building -	Structural	Trowel Machine	Other Construction Equipment600	Diesel	600	0.59	40	0.606632	1.303279	536.588	0.001601	0.097889	0.094953	0.083191	0.009469	0.020343	8.3755	2.5E-05	0.001528	0.001482	0.001299
6	2025	Building -	Structural	Truck Tower (Mantiwoc type)	Off-highway Trucks300	Diesel	300	0.43	720	0.020751	0.114516	536.8026	0.001414	0.006672	0.006472	0.009732	0.002125	0.011724	54.95958	0.000145	0.000683	0.000663	0.000996
7	2025	Building -	Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.017899	0.018314	5.14791	1.54E-05	0.002379	0.002307	0.002664
7	2025	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
7	2025	Building -	Concrete F	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	320	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.01158	0.028309	12.40404	3.42E-05	0.001735	0.001682	0.001051
7	2025	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001222	0.004826	16.75748	4.43E-05	0.000302	0.000293	0.000369
7	2025	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
7	2025	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000153	0.000603	2.094685	5.54E-06	3.77E-05	3.66E-05	4.61E-05
7	2025	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.11E-05	0.000241	0.837874	2.22E-06	1.51E-05	1.46E-05	1.84E-05
7	2025	Building -	Exterior W	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	240	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.008685	0.021232	9.303029	2.57E-05	0.001301	0.001262	0.000788
7	2025	Building -	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	240	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.001951	0.011204	2.483012	6.83E-06	0.000209	0.000203	0.000343
7	2025	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
7	2025	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
7	2025	Building -	Interior Bu	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	960	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.034739	0.084928	37.21212	0.000103	0.005204	0.005047	0.003153
7	2025	Building -	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	960	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.007804	0.044815	9.932046	2.73E-05	0.000835	0.00081	0.001374
7	2025	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001832	0.007239	25.13622	6.65E-05	0.000453	0.000439	0.000553
7	2025	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001832	0.007239	25.13622	6.65E-05	0.000453	0.000439	0.000553
7	2025	Building -	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	120	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.003415	0.009548	4.651779	1.27E-05	0.000515	0.0005	0.000304
7	2025	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts75	Diesel	75	0.21	120	0.46821	2.688823	595.9096	0.00164	0.050119	0.048616	0.082418	0.000975	0.005602	1.241506	3.42E-06	0.000104	0.000101	0.000172
7	2025	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000122	0.000483	1.675748	4.43E-06	3.02E-05	2.93E-05	3.69E-05
7	2025	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000183	0.000724	2.513622	6.65E-06	4.53E-05	4.39E-05	5.53E-05
7	2025	Building -	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	320	0.437526	1.223449	596.0453	0.001627	0.066002	0.064022	0.038997	0.009106	0.025462	12.40474	3.39E-05	0.001374	0.001332	0.000812
7	2025	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001222	0.004826	16.75748	4.43E-05	0.000302	0.000293	0.000369
7	2025	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.08211	0.329949	530.9715	0.001437	0.017749	0.017217	0.024289	0.002802	0.01126	18.12085	4.9E-05	0.000606	0.000588	0.000829
7	2025	Building -	Structural	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	120	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.004342	0.010616	4.651514	1.28E-05	0.00065	0.000631	0.000394
7	2025	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000916	0.003619	12.56811	3.33E-05	0.000226	0.000219	0.000277
7	2025	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
8	2025	Site Work	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000153	0.000603	2.094685	5.54E-06	3.77E-05	3.66E-05	4.61E-05
8	2025	Site Work	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	6.11E-05	0.000241	0.837874	2.22E-06	1.51E-05	1.46E-05	1.84E-05
8	2025	Site Work	Site Cleari	Bulldozer	Crawler Tractor/Dozers175	Diesel	175	0.59	40	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000423	0.001306	2.443772	6.51E-06	0.000104	0.000101	6.52E-05
8	2025	Site Work	Site Cleari	Chain Saws	Other Construction Equipment11	Diesel	11	0.7	40	2.469749	4.183621	593.7568	0.002183	0.240434	0.233221	0.837675	0.000839	0.00142	0.201589	7.41E-07	8.16E-05	7.92E-05	0.000284
8	2025	Site Work	Site Cleari	Flat Bed or Dump Trucks	Off-highway Trucks600	Diesel	600	0.59	80	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001222	0.004826	16.75748	4.43E-05	0.000302	0.000293	0.000369
8	2025	Site Work	Site Cleari	Front Loader	Tractors/Loaders/Backhoes100	Diesel	100	0.21	40	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.002237	0.002289	0.643489	1.92E-06	0.000297	0.000288	0.000333
8	2025	Site Work	Site Cleari	Grub the site down 2'-0	Other Construction Equipment40	Diesel	40	0.59	40	0.302419	2.549508	595.8721	0.001576	0.02584	0.025065	0.095301	0.000315	0.002653	0.620057	1.64E-06	2.69E-05	2.61E-05	9.92E-05
8	2025	Site Work	Site Cleari	Log Chipper	Other Construction Equipment100	Diesel	100	0.43	40	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.001055	0.002579	1.130029	3.12E-06	0.000158	0.000153	9.58E-05
8	2025	Site Work	Site Cleari	Mulcher	Other Construction Equipment100	Diesel	100	0.43	40	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.001055	0.002579	1.130029	3.12E-06	0.000158	0.000153	9.58E-05
8	2025	Site Work	Site Cleari	Ten Wheelers	Off-highway Trucks600	Diesel	600	0.59	40	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000611	0.002413	8.378739	2.22E-05	0.000151	0.000146	0.000184
8	2025	Site Work	Site Cleari	Tractor	Tractors/Loaders/Backhoes100	Diesel	100	0.21	80	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.004475	0.004579	1.286978	3.84E-06	0.000595	0.000577	0.000666
8	2025	Site Work	Site Resto	Bob Cat	Tractors/Loaders/Backhoes75	Diesel	75	0.21	24	2.197293	3.476923	694.8737	0.002104	0.273771	0.265558	0.384111	0.000916	0.001449	0.289537	8.77E-07	0.000114	0.000111	0.00016
8	2025	Site Work	Site Resto	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
8	2025	Site Work	Site Resto	Tractor Trailer with Boom Hoist- Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000366	0.001448	5.027243	1.33E-05	9.05E-05	8.78E-05	0.000111
8	2025	Site Work	Site Resto	Compacting Equipment	Plate Compactors6	Diesel	6	0.43	24	2.527845	4.190847	588.0067	0.002162	0.254101	0.246479	0.823845	0.000173	0.000286	0.040135	1.48E-07	1.73E-05	1.68E-05	5.62E-05
8	2025	Site Work	Site Resto	Small Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	24	0.092973	0.286867	536.7896	0.00143	0.022793	0.02211	0.014312	0.000254	0.000784	1.466263	3.91E-06	6.23E-05	6.04E-05	3.91E-05
8	2025	Site Work	Site Resto	Forktruck (Hoist)	Other Construction Equipment100	Diesel	100	0.59	80	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.002895	0.007077	3.10101	8.56E-06	0.000434	0.000421	0.000263
8	2025	Site Work	Site Resto	Roller	Rollers100	Diesel	100	0.59	40	0.342347	1.110226	596.0783	0.001613	0.054901	0.053254	0.027829	0.000891	0.002888	1.550679	4.2E-06	0.000143	0.000139	7.24E-05
8	2025	Site Work	Site Resto	Seed Truck Spreader	Off-highway Trucks600	Diesel	600	0.59	16	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000244	0.000965	3.351495	8.87E-06	6.03E-05	5.85E-05	7.37E-05
8	2025	Site Work	Site Resto	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	80	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.001222	0.004826	16.75748	4.43E-05	0.000302	0.000293	0.000369
8	2025	Site Work	Undergrou	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	120	2.416276	2.47235	694.9526	0.002075	0.32112	0.311486	0.359615	0.006712	0.006868	1.930466	5.76E-06	0.000892	0.000865	0.000999
8	2025	Site Work	Undergrou	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	60	0.556396	1.360255	596.0114	0.001645	0.083344	0.080843	0.050507	0.002171	0.005308	2.325757	6.42E-06	0.000325	0.000315	0.000197
8	2025	Site Work	Undergrou	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	30	0.039133	0.154587	536.7955	0.001421	0.009664	0.009375	0.011812	0.000458	0.00181	6.284054	1.66E-05	0.000113	0.00011	0.000138
																Totals	2.38967	7.270591	14584.13	0.03886	0.47496	0.460711	0.491793

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

																							MOVES ONROAD Emissions			
																						7	10	13	11	12
Scenario ID	Year	Project	Equipmen	Equipment Category	On-road Activity	Lookup	Fuel	Roadway T	Round Trip	Distance fo	Number o	Number o	Number o	Project Le	Project Wi	Project Ar	Building H	Open Spac	Number o	Activity Ra	VMT	CO	NOx	SO2	PM10	PM2.5
1	2025	Taxiways	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	3300	30	--	--	--	--	--	1436	2.202626	3.881591	0.005494	0.06619	0.060895
1	2025	Taxiways	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	2	--	258	3300	30	--	--	--	--	--	22894	1.269302	1.803304	0.003409	0.0339	0.031188
1	2025	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	3300	30	--	--	--	--	--	2035	1.269302	1.803304	0.003409	0.0339	0.031188
1	2025	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	3300	30	--	--	--	--	--	12210	1.269302	1.803304	0.003409	0.0339	0.031188
1	2025	Taxiways	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	497.2	497.2	258	--	--	--	--	--	--	--	848328	2.851508	0.067149	0.002101	0.002103	0.00186
2	2025	Terminal A	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	716	400	--	--	--	--	--	4156	2.202626	3.881591	0.005494	0.06619	0.060895
2	2025	Terminal A	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	4	--	258	716	400	--	--	--	--	--	66230	1.269302	1.803304	0.003409	0.0339	0.031188
2	2025	Terminal A	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	716	400	--	--	--	--	--	5887	1.269302	1.803304	0.003409	0.0339	0.031188
2	2025	Terminal A	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	2	--	258	716	400	--	--	--	--	--	35323	1.269302	1.803304	0.003409	0.0339	0.031188
2	2025	Terminal A	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	76	76	258	--	--	--	--	--	--	--	588240	2.851508	0.067149	0.002101	0.002103	0.00186
3	2025	Terminal A	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	400	776	--	--	--	--	--	4504	2.202626	3.881591	0.005494	0.06619	0.060895
3	2025	Terminal A	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	4	--	258	400	776	--	--	--	--	--	71780	1.269302	1.803304	0.003409	0.0339	0.031188
3	2025	Terminal A	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	1	--	258	400	776	--	--	--	--	--	6380	1.269302	1.803304	0.003409	0.0339	0.031188
3	2025	Terminal A	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrba	Diesel	Urban Unr	40	5	2	--	258	400	776	--	--	--	--	--	38283	1.269302	1.803304	0.003409	0.0339	0.031188
3	2025	Terminal A	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	374	374	258	--	--	--	--	--	--	--	2894760	2.851508	0.067149	0.002101	0.002103	0.00186

4	2025	Taxiway E	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	2440	44	--	--	--	--	--	1558	2.202626	3.881591	0.005494	0.06619	0.060895
4	2025	Taxiway E	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	2	--	258	2440	44	--	--	--	--	--	24827	1.269302	1.803304	0.003409	0.0339	0.031188
4	2025	Taxiway E	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	2440	44	--	--	--	--	--	2207	1.269302	1.803304	0.003409	0.0339	0.031188
4	2025	Taxiway E	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	2440	44	--	--	--	--	--	13241	1.269302	1.803304	0.003409	0.0339	0.031188
4	2025	Taxiway E	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	125.4	125.4	258	--	--	--	--	--	--	--	970596	2.851508	0.067149	0.002101	0.002103	0.00186
5	2025	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	2313	1.269302	1.803304	0.003409	0.0339	0.031188
5	2025	Building -	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	1233	1.269302	1.803304	0.003409	0.0339	0.031188
5	2025	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	1936	1936	258	--	--	--	--	--	--	--	1100000	2.851508	0.067149	0.002101	0.002103	0.00186
5	2025	Building -	Tractor Tr	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.202626	3.881591	0.005494	0.06619	0.060895
6	2025	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	2313	1.269302	1.803304	0.003409	0.0339	0.031188
6	2025	Building -	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	1233	1.269302	1.803304	0.003409	0.0339	0.031188
6	2025	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	2079	2079	258	--	--	--	--	--	--	--	1600000	2.851508	0.067149	0.002101	0.002103	0.00186
6	2025	Building -	Tractor Tr	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.202626	3.881591	0.005494	0.06619	0.060895
1	2025	Demolition	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1620	42	--	--	--	--	--	15120	1.269302	1.803304	0.003409	0.0339	0.031188
1	2025	Demolition	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	52.8	52.8	193	--	--	--	--	--	--	--	305712	2.851508	0.067149	0.002101	0.002103	0.00186
2	2025	Access Ro	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1620	30	--	--	--	--	--	705	2.202626	3.881591	0.005494	0.06619	0.060895
2	2025	Access Ro	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1620	30	--	--	--	--	--	11239	1.269302	1.803304	0.003409	0.0339	0.031188
2	2025	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1620	30	--	--	--	--	--	999	1.269302	1.803304	0.003409	0.0339	0.031188
2	2025	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1620	30	--	--	--	--	--	5994	1.269302	1.803304	0.003409	0.0339	0.031188
2	2025	Access Ro	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	86	86	193	--	--	--	--	--	--	--	497940	2.851508	0.067149	0.002101	0.002103	0.00186
3	2025	Access Ro	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	65	300	3	--	--	--	--	--	13	2.202626	3.881591	0.005494	0.06619	0.060895
3	2025	Access Ro	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	65	300	3	--	--	--	--	--	208	1.269302	1.803304	0.003409	0.0339	0.031188
3	2025	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	65	300	3	--	--	--	--	--	19	1.269302	1.803304	0.003409	0.0339	0.031188
3	2025	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	65	300	3	--	--	--	--	--	111	1.269302	1.803304	0.003409	0.0339	0.031188
3	2025	Access Ro	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	86	86	65	--	--	--	--	--	--	--	167700	2.851508	0.067149	0.002101	0.002103	0.00186
4	2025	Open Park	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	2313	1.269302	1.803304	0.003409	0.0339	0.031188
4	2025	Open Park	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	206	1.269302	1.803304	0.003409	0.0339	0.031188
4	2025	Open Park	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	1233	1.269302	1.803304	0.003409	0.0339	0.031188
4	2025	Open Park	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	180.4	180.4	258	--	--	--	--	--	--	--	1396296	2.851508	0.067149	0.002101	0.002103	0.00186
4	2025	Open Park	Tractor Tr	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.0012	120	2.202626	3.881591	0.005494	0.06619	0.060895
5	2025	Fuel Tanks	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	4725	100	--	--	--	--	--	6856	2.202626	3.881591	0.005494	0.06619	0.060895
5	2025	Fuel Tanks	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	8	--	193	4725	100	--	--	--	--	--	109266	1.269302	1.803304	0.003409	0.0339	0.031188
5	2025	Fuel Tanks	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	4725	100	--	--	--	--	--	9713	1.269302	1.803304	0.003409	0.0339	0.031188
5	2025	Fuel Tanks	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	4	--	193	4725	100	--	--	--	--	--	58275	1.269302	1.803304	0.003409	0.0339	0.031188
5	2025	Fuel Tanks	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	71	71	193	--	--	--	--	--	--	--	411090	2.851508	0.067149	0.002101	0.002103	0.00186
6	2025	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	2	--	193	--	--	100000	--	--	--	--	23125	1.269302	1.803304	0.003409	0.0339	0.031188
6	2025	Building -	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	--	--	100000	--	--	--	--	12333	1.269302	1.803304	0.003409	0.0339	0.031188
6	2025	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	165	165	193	--	--	--	--	--	--	--	955350	2.851508	0.067149	0.002101	0.002103	0.00186
6	2025	Building -	Tractor Tr	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	--	--	100000	--	--	--	0.0024	2400	2.202626	3.881591	0.005494	0.06619	0.060895
7	2025	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	2313	1.269302	1.803304	0.003409	0.0339	0.031188
7	2025	Building -	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	1233	1.269302	1.803304	0.003409	0.0339	0.031188
7	2025	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	352	352	258	--	--	--	--	--	--	--	2724480	2.851508	0.067149	0.002101	0.002103	0.00186
7	2025	Building -	Tractor Tr	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.202626	3.881591	0.005494	0.06619	0.060895
8	2025	Site Work	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	2313	1.269302	1.803304	0.003409	0.0339	0.031188
8	2025	Site Work	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	1233	1.269302	1.803304	0.003409	0.0339	0.031188
8	2025	Site Work	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	1452	1452	258	--	--	--	--	--	--	--	1113280	2.851508	0.067149	0.002101	0.002103	0.00186
8	2025	Site Work	Tractor Tr	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.008	800	2.202626	3.881591	0.005494	0.06619	0.060895

Fugitive Sources

Units for Non-Greenhouse Gases Emission: Short Ton

Scenario I	Year	Project	Fugitive Sc	Number of Months	CO	NOx	SO2	PM10	VOC
1	2025	Taxiways	Asphalt Dr	12	0	0	0	0	0.025
1	2025	Taxiways	Asphalt St	12	0.23955	0.01495	0.002752	0.0164	0.0074
1	2025	Taxiways	Material N	12	0	0	0	0.02995	0
1	2025	Taxiways	Material N	12	0	0	0	0.0963	0
1	2025	Taxiways	Soil Handl	12	0	0	0	0.028	0
1	2025	Taxiways	Unstabilize	12	0	0	0	3.99E-08	0
2	2025	Terminal A	Asphalt Dr	12	0	0	0	0	0.025
2	2025	Terminal A	Asphalt St	12	0.69295	0.04325	0.00795	0.04745	0.02145
2	2025	Terminal A	Concrete I	12	0	0	0	0.24505	0
2	2025	Terminal A	Material N	12	0	0	0	0.0479	0
2	2025	Terminal A	Material N	12	0	0	0	0.152	0
2	2025	Terminal A	Soil Handl	12	0	0	0	0.08105	0
2	2025	Terminal A	Unstabilize	12	0	0	0	1.16E-07	0
3	2025	Terminal A	Asphalt Dr	12	0	0	0	0	0.025
3	2025	Terminal A	Asphalt St	12	0.75105	0.0469	0.00865	0.05145	0.02325
3	2025	Terminal A	Concrete I	12	0	0	0	0.2656	0
3	2025	Terminal A	Material N	12	0	0	0	0.0479	0
3	2025	Terminal A	Material N	12	0	0	0	0.15245	0
3	2025	Terminal A	Soil Handl	12	0	0	0	0.08785	0
3	2025	Terminal A	Unstabilize	12	0	0	0	1.25E-07	0
4	2025	Taxiway E	Asphalt Dr	12	0	0	0	0	0.025
4	2025	Taxiway E	Asphalt St	12	0.25975	0.0162	0.002985	0.0178	0.00805
4	2025	Taxiway E	Concrete I	12	0	0	0	0.09185	0
4	2025	Taxiway E	Material N	12	0	0	0	0.02995	0
4	2025	Taxiway E	Material N	12	0	0	0	0.0954	0
4	2025	Taxiway E	Soil Handl	12	0	0	0	0.0304	0
4	2025	Taxiway E	Unstabilize	12	0	0	0	4.33E-08	0
5	2025	Building -	Concrete I	12	0	0	0	0.00855	0
5	2025	Building -	Material N	12	0	0	0	0.01195	0
5	2025	Building -	Material N	12	0	0	0	0.03535	0

6	2025	Building - :	Concrete I	12	0	0	0	0.00855	0
6	2025	Building - :	Material N	12	0	0	0	0.01195	0
6	2025	Building - :	Material N	12	0	0	0	0.03535	0
1	2025	Demolitior	Material N	9	0	0	0	0.004479	0
1	2025	Demolitior	Material N	9	0	0	0	0.0144	0
1	2025	Demolitior	Soil Handli	9	0	0	0	0.01925	0
1	2025	Demolitior	Unstabilize	9	0	0	0	2.06E-08	0
2	2025	Access Roa	Asphalt Dr	9	0	0	0	0	0.05
2	2025	Access Roa	Asphalt St	9	0.1176	0.00735	0.001351	0.00805	0.003642
2	2025	Access Roa	Concrete I	9	0	0	0	0.0416	0
2	2025	Access Roa	Material N	9	0	0	0	0.0179	0
2	2025	Access Roa	Material N	9	0	0	0	0.057	0
2	2025	Access Roa	Soil Handli	9	0	0	0	0.01375	0
2	2025	Access Roa	Unstabilize	9	0	0	0	1.47E-08	0
3	2025	Access Roa	Asphalt Dr	3	0	0	0	0	0.0334
3	2025	Access Roa	Asphalt St	3	0.0021775	0.000136	2.50E-05	0.000149	6.75E-05
3	2025	Access Roa	Concrete I	3	0	0	0	0.00077	0
3	2025	Access Roa	Material N	3	0	0	0	0.00605	0
3	2025	Access Roa	Material N	3	0	0	0	0.0183	0
3	2025	Access Roa	Soil Handli	3	0	0	0	0.000255	0
3	2025	Access Roa	Unstabilize	3	0	0	0	9.08E-11	0
4	2025	Open Park	Asphalt Dr	12	0	0	0	0	0.37095
4	2025	Open Park	Material N	12	0	0	0	0.01795	0
4	2025	Open Park	Material N	12	0	0	0	0.05315	0
4	2025	Open Park	Soil Handli	12	0	0	0	0.002831	0
4	2025	Open Park	Unstabilize	12	0	0	0	4.03E-09	0
5	2025	Fuel Tanks	Asphalt Dr	9	0	0	0	0	0.09
5	2025	Fuel Tanks	Asphalt St	9	1.14325	0.0714	0.01315	0.0783	0.0354
5	2025	Fuel Tanks	Concrete I	9	0	0	0	0.4043	0
5	2025	Fuel Tanks	Material N	9	0	0	0	0.0627	0
5	2025	Fuel Tanks	Material N	9	0	0	0	0.2803	0
5	2025	Fuel Tanks	Soil Handli	9	0	0	0	0.13375	0
5	2025	Fuel Tanks	Unstabilize	9	0	0	0	1.43E-07	0
6	2025	Building - :	Concrete I	9	0	0	0	0.08555	0
6	2025	Building - :	Material N	9	0	0	0	0.01345	0
6	2025	Building - :	Material N	9	0	0	0	0.041	0
7	2025	Building - :	Concrete I	12	0	0	0	0.00855	0
7	2025	Building - :	Material N	12	0	0	0	0.01195	0
7	2025	Building - :	Material N	12	0	0	0	0.03535	0
8	2025	Site Work	Material N	12	0	0	0	0.01195	0
8	2025	Site Work	Material N	12	0	0	0	0.03565	0
8	2025	Site Work	Soil Handli	12	0	0	0	0.002831	0
8	2025	Site Work	Unstabilize	12	0	0	0	4.03E-09	0
			Totals		3.2063275	0.200186	0.036863	3.207964	0.743609

2025 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2025	NonRoad	2.38967	7.270591	0.038327822	0.474959812	0.460711	0.491793	14584.13	--	--	
2025	OnRoad	49.79984	2.375674	0.038327822	0.058913601	0.052923	1.262791	6105.195	0.144624	0.031834	
2025	Fugitive	3.206328	0.200186	0.03686252	3.207964011	--	0.743609	--	--	--	
2025	TOTAL	55.39584	9.846452	0.113518164	3.741837424	0.513635	2.498193	20689.33	0.144624	0.031834	20701.81

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO_2, CH_4, and N_2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)

Factors (g/mile)							MOVES ONROAD Emissions (tpy)					
14	5	8	9	7	10	13	11	12	14	5	8	9
VOC	CO2	CH4	N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
0.169144	1643.222	0.019684	0.002802	0.003487	0.006144	8.7E-06	0.000105	9.64E-05	0.000268	2.601101	3.12E-05	4.44E-06
0.104185	1018.132	0.015684	0.003286	0.032033	0.045509	8.6E-05	0.000856	0.000787	0.002629	25.69403	0.000396	8.29E-05
0.104185	1018.132	0.015684	0.003286	0.002847	0.004045	7.65E-06	7.6E-05	7E-05	0.000234	2.283889	3.52E-05	7.37E-06
0.104185	1018.132	0.015684	0.003286	0.017084	0.024271	4.59E-05	0.000456	0.00042	0.001402	13.70333	0.000211	4.42E-05
0.069524	316.2227	0.007826	0.001731	2.66652	0.062793	0.001964	0.001966	0.001739	0.065014	295.7082	0.007318	0.001619
0.169144	1643.222	0.019684	0.002802	0.010091	0.017782	2.52E-05	0.000303	0.000279	0.000775	7.527977	9.02E-05	1.28E-05
0.104185	1018.132	0.015684	0.003286	0.092667	0.131653	0.000249	0.002475	0.002277	0.007606	74.3302	0.001145	0.00024
0.104185	1018.132	0.015684	0.003286	0.008237	0.011702	2.21E-05	0.00022	0.000202	0.000676	6.607004	0.000102	2.13E-05
0.104185	1018.132	0.015684	0.003286	0.049423	0.070216	0.000133	0.00132	0.001214	0.004057	39.64315	0.000611	0.000128
0.069524	316.2227	0.007826	0.001731	1.848995	0.043541	0.001362	0.001363	0.001206	0.045081	205.0473	0.005074	0.001122
0.169144	1643.222	0.019684	0.002802	0.010936	0.019271	2.73E-05	0.000329	0.000302	0.00084	8.158328	9.77E-05	1.39E-05
0.104185	1018.132	0.015684	0.003286	0.100433	0.142685	0.00027	0.002682	0.002468	0.008244	80.55899	0.001241	0.00026
0.104185	1018.132	0.015684	0.003286	0.008927	0.012682	2.4E-05	0.000238	0.000219	0.000733	7.1603	0.00011	2.31E-05
0.104185	1018.132	0.015684	0.003286	0.053565	0.076099	0.000144	0.001431	0.001316	0.004397	42.96517	0.000662	0.000139
0.069524	316.2227	0.007826	0.001731	9.099	0.214269	0.006703	0.006709	0.005935	0.221848	1009.049	0.024971	0.005523

0.169144	1643.222	0.019684	0.002802	0.003783	0.006666	9.44E-06	0.000114	0.000105	0.00029	2.822086	3.38E-05	4.81E-06
0.104185	1018.132	0.015684	0.003286	0.034737	0.049351	9.33E-05	0.000928	0.000854	0.002851	27.86344	0.000429	8.99E-05
0.104185	1018.132	0.015684	0.003286	0.003088	0.004387	8.29E-06	8.25E-05	7.59E-05	0.000253	2.476925	3.82E-05	7.99E-06
0.104185	1018.132	0.015684	0.003286	0.018526	0.026321	4.98E-05	0.000495	0.000455	0.001521	14.86043	0.000229	4.8E-05
0.069524	316.2227	0.007826	0.001731	3.050841	0.071843	0.002248	0.00225	0.00199	0.074384	338.3281	0.008373	0.001852
0.104185	1018.132	0.015684	0.003286	0.003236	0.004598	8.69E-06	8.64E-05	7.95E-05	0.000266	2.595889	4E-05	8.38E-06
0.104185	1018.132	0.015684	0.003286	0.001725	0.002451	4.63E-06	4.61E-05	4.24E-05	0.000142	1.383801	2.13E-05	4.47E-06
0.069524	316.2227	0.007826	0.001731	3.457592	0.081422	0.002547	0.00255	0.002255	0.084301	383.4354	0.009489	0.002099
0.169144	1643.222	0.019684	0.002802	0.000388	0.000685	9.69E-07	1.17E-05	1.07E-05	2.98E-05	0.289816	3.47E-06	4.94E-07
0.104185	1018.132	0.015684	0.003286	0.003236	0.004598	8.69E-06	8.64E-05	7.95E-05	0.000266	2.595889	4E-05	8.38E-06
0.104185	1018.132	0.015684	0.003286	0.001725	0.002451	4.63E-06	4.61E-05	4.24E-05	0.000142	1.383801	2.13E-05	4.47E-06
0.069524	316.2227	0.007826	0.001731	5.029225	0.118432	0.003705	0.003708	0.003281	0.12262	557.7242	0.013802	0.003053
0.169144	1643.222	0.019684	0.002802	0.000388	0.000685	9.69E-07	1.17E-05	1.07E-05	2.98E-05	0.289816	3.47E-06	4.94E-07
0.104185	1018.132	0.015684	0.003286	0.021155	0.030056	5.68E-05	0.000565	0.00052	0.001736	16.96924	0.000261	5.48E-05
0.069524	316.2227	0.007826	0.001731	0.960934	0.022629	0.000708	0.000709	0.000627	0.023429	106.5644	0.002637	0.000583
0.169144	1643.222	0.019684	0.002802	0.001712	0.003017	4.27E-06	5.14E-05	4.73E-05	0.000131	1.277003	1.53E-05	2.18E-06
0.104185	1018.132	0.015684	0.003286	0.015725	0.022341	4.22E-05	0.00042	0.000386	0.001291	12.61358	0.000194	4.07E-05
0.104185	1018.132	0.015684	0.003286	0.001398	0.001986	3.75E-06	3.73E-05	3.43E-05	0.000115	1.121182	1.73E-05	3.62E-06
0.104185	1018.132	0.015684	0.003286	0.008387	0.011915	2.25E-05	0.000224	0.000206	0.000688	6.727091	0.000104	2.17E-05
0.069524	316.2227	0.007826	0.001731	1.565158	0.036857	0.001153	0.001154	0.001021	0.038161	173.5707	0.004295	0.00095
0.169144	1643.222	0.019684	0.002802	3.16E-05	5.56E-05	7.87E-08	9.49E-07	8.73E-07	2.42E-06	0.023548	2.82E-07	4.02E-08
0.104185	1018.132	0.015684	0.003286	0.000291	0.000413	7.82E-07	7.77E-06	7.15E-06	2.39E-05	0.233439	3.6E-06	7.53E-07
0.104185	1018.132	0.015684	0.003286	2.66E-05	3.78E-05	7.14E-08	7.1E-07	6.53E-07	2.18E-06	0.021324	3.28E-07	6.88E-08
0.104185	1018.132	0.015684	0.003286	0.000155	0.000221	4.17E-07	4.15E-06	3.82E-06	1.27E-05	0.124576	1.92E-06	4.02E-07
0.069524	316.2227	0.007826	0.001731	0.527126	0.012413	0.000388	0.000389	0.000344	0.012852	58.45647	0.001447	0.00032
0.104185	1018.132	0.015684	0.003286	0.003236	0.004598	8.69E-06	8.64E-05	7.95E-05	0.000266	2.595889	4E-05	8.38E-06
0.104185	1018.132	0.015684	0.003286	0.000288	0.000409	7.74E-07	7.7E-06	7.08E-06	2.37E-05	0.231195	3.56E-06	7.46E-07
0.104185	1018.132	0.015684	0.003286	0.001725	0.002451	4.63E-06	4.61E-05	4.24E-05	0.000142	1.383801	2.13E-05	4.47E-06
0.069524	316.2227	0.007826	0.001731	4.38893	0.103354	0.003233	0.003236	0.002863	0.107009	486.7176	0.012045	0.002664
0.169144	1643.222	0.019684	0.002802	0.000291	0.000513	7.27E-07	8.76E-06	8.06E-06	2.24E-05	0.217362	2.6E-06	3.71E-07
0.169144	1643.222	0.019684	0.002802	0.016646	0.029335	4.15E-05	0.0005	0.00046	0.001278	12.41863	0.000149	2.12E-05
0.104185	1018.132	0.015684	0.003286	0.152882	0.2172	0.000411	0.004083	0.003756	0.012549	122.6297	0.001889	0.000396
0.104185	1018.132	0.015684	0.003286	0.01359	0.019308	3.65E-05	0.000363	0.000334	0.001115	10.90094	0.000168	3.52E-05
0.104185	1018.132	0.015684	0.003286	0.081537	0.11584	0.000219	0.002178	0.002003	0.006693	65.40227	0.001007	0.000211
0.069524	316.2227	0.007826	0.001731	1.292165	0.030429	0.000952	0.000953	0.000843	0.031505	143.2968	0.003546	0.000784
0.104185	1018.132	0.015684	0.003286	0.032356	0.045968	8.69E-05	0.000864	0.000795	0.002656	25.95328	0.0004	8.38E-05
0.104185	1018.132	0.015684	0.003286	0.017256	0.024516	4.63E-05	0.000461	0.000424	0.001416	13.84138	0.000213	4.47E-05
0.069524	316.2227	0.007826	0.001731	3.002919	0.070715	0.002212	0.002214	0.001959	0.073216	333.0136	0.008241	0.001823
0.169144	1643.222	0.019684	0.002802	0.005827	0.010269	1.45E-05	0.000175	0.000161	0.000447	4.347244	5.21E-05	7.41E-06
0.104185	1018.132	0.015684	0.003286	0.003236	0.004598	8.69E-06	8.64E-05	7.95E-05	0.000266	2.595889	4E-05	8.38E-06
0.104185	1018.132	0.015684	0.003286	0.001725	0.002451	4.63E-06	4.61E-05	4.24E-05	0.000142	1.383801	2.13E-05	4.47E-06
0.069524	316.2227	0.007826	0.001731	8.563765	0.201665	0.006309	0.006315	0.005586	0.208798	949.6928	0.023502	0.005198
0.169144	1643.222	0.019684	0.002802	0.000388	0.000685	9.69E-07	1.17E-05	1.07E-05	2.98E-05	0.289816	3.47E-06	4.94E-07
0.104185	1018.132	0.015684	0.003286	0.003236	0.004598	8.69E-06	8.64E-05	7.95E-05	0.000266	2.595889	4E-05	8.38E-06
0.104185	1018.132	0.015684	0.003286	0.001725	0.002451	4.63E-06	4.61E-05	4.24E-05	0.000142	1.383801	2.13E-05	4.47E-06
0.069524	316.2227	0.007826	0.001731	3.499335	0.082405	0.002578	0.00258	0.002283	0.085319	388.0645	0.009604	0.002124
0.169144	1643.222	0.019684	0.002802	0.001942	0.003423	4.84E-06	5.84E-05	5.37E-05	0.000149	1.449081	1.74E-05	2.47E-06
			totals	49.79984	2.375674	0.038328	0.058914	0.052923	1.262791	6105.195	0.144624	0.031834

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 11:56:54 AM

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STUDY

Study Name

Austin Airport

Study Description

2026 Construction Schedule

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO_2, CH_4, and N_2O) Emission: Metric Ton

										NONROAD Emission Factors g/-hp-hr									NONROAD Emissions (TPY)				
										3	6	2	9	7	8	11							
Scenario II	Year	Project	Constructi	Equipment	MovesLookup	Fuel	HP Averag	Load Factc	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)	PM10 (tpy	PM2.5 (tp	VOC Exhaust (tpy)
1	2026	Taxiways	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	3.434125	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	3.86E-05	0.000111	0.209805	5.6E-07	9.54E-06	9.25E-06	5.93E-06
1	2026	Taxiways	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	12.36826	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000155	0.000668	2.590773	6.84E-06	4.11E-05	3.99E-05	5.32E-05
1	2026	Taxiways	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	6.86825	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.00011	0.000338	0.305786	8.37E-07	2.68E-05	2.6E-05	1.92E-05
1	2026	Taxiways	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	3.434125	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.31E-05	0.000185	0.719344	1.9E-06	1.14E-05	1.11E-05	1.48E-05
1	2026	Taxiways	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	3.434125	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	5.75E-05	0.000232	0.133135	3.57E-07	9.68E-06	9.39E-06	4.72E-06
1	2026	Taxiways	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	3.434125	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000164	0.000226	0.041406	1.27E-07	2.18E-05	2.11E-05	3.09E-05
1	2026	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	4.39568	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000107	0.000269	0.042536	1.56E-07	1.22E-05	1.19E-05	2.51E-05
1	2026	Taxiways	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	12	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000251	0.000426	0.060476	2.22E-07	2.44E-05	2.37E-05	8.53E-05
1	2026	Taxiways	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	12	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000264	0.00072	0.339023	9.28E-07	3.99E-05	3.87E-05	2.39E-05
1	2026	Taxiways	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
1	2026	Taxiways	Drainage - Dozer		Crawler Tractor/Dozers175	Diesel	175	0.59	53.12	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000474	0.001519	3.245367	8.61E-06	0.000114	0.00011	7.42E-05
1	2026	Taxiways	Drainage - Dump Truck		Off-highway Trucks600	Diesel	600	0.59	53.12	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000666	0.002868	11.12702	2.94E-05	0.000177	0.000171	0.000228
1	2026	Taxiways	Drainage - Excavator		Excavators175	Diesel	175	0.59	53.12	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000396	0.001312	3.245395	8.58E-06	9.29E-05	9.01E-05	6.34E-05
1	2026	Taxiways	Drainage - Loader		Tractors/Loaders/Backhoes175	Diesel	175	0.59	53.12	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.004917	0.008842	3.784396	1.1E-05	0.00114	0.001106	0.001229
1	2026	Taxiways	Drainage - Other General Equipment		Other Construction Equipment175	Diesel	175	0.43	53.12	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000853	0.002617	2.364992	6.47E-06	0.000208	0.000201	0.000149
1	2026	Taxiways	Drainage - Pickup Truck		Off-highway Trucks600	Diesel	600	0.59	53.12	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000666	0.002868	11.12702	2.94E-05	0.000177	0.000171	0.000228
1	2026	Taxiways	Drainage - Roller		Rollers100	Diesel	100	0.59	53.12	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000889	0.003594	2.059366	5.53E-06	0.00015	0.000145	7.3E-05
1	2026	Taxiways	Drainage - Dump Truck		Off-highway Trucks600	Diesel	600	0.59	29.51111	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00037	0.001594	6.181676	1.63E-05	9.81E-05	9.51E-05	0.000127
1	2026	Taxiways	Drainage - Loader		Tractors/Loaders/Backhoes175	Diesel	175	0.59	29.51111	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.002732	0.004912	2.102442	6.13E-06	0.000633	0.000614	0.000683
1	2026	Taxiways	Drainage - Other General Equipment		Other Construction Equipment175	Diesel	175	0.43	29.51111	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000474	0.001454	1.313885	3.59E-06	0.000115	0.000112	8.25E-05
1	2026	Taxiways	Drainage - Pickup Truck		Off-highway Trucks600	Diesel	600	0.59	29.51111	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00037	0.001594	6.181676	1.63E-05	9.81E-05	9.51E-05	0.000127
1	2026	Taxiways	Drainage - Tractors/Loader/Backhoe		Tractors/Loaders/Backhoes100	Diesel	100	0.21	29.51111	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.001357	0.001486	0.474889	1.39E-06	0.000186	0.00018	0.000198
1	2026	Taxiways	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	1440	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.018064	0.077758	301.636	0.000797	0.004786	0.004643	0.006191
1	2026	Taxiways	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	15.26267	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000136	0.000437	0.932473	2.47E-06	3.26E-05	3.16E-05	2.13E-05
1	2026	Taxiways	Excavation	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	15.26267	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000191	0.000824	3.197062	8.45E-06	5.07E-05	4.92E-05	6.56E-05
1	2026	Taxiways	Excavation	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	15.26267	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000191	0.000824	3.197062	8.45E-06	5.07E-05	4.92E-05	6.56E-05
1	2026	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	7.044308	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000118	0.000477	0.273095	7.33E-07	1.99E-05	1.93E-05	9.68E-06
1	2026	Taxiways	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	11.447	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000102	0.000327	0.699354	1.86E-06	2.45E-05	2.37E-05	1.6E-05
1	2026	Taxiways	Excavation	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	30.52533	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000383	0.001648	6.394124	1.69E-05	0.000101	9.84E-05	0.000131
1	2026	Taxiways	Excavation	Excavator	Excavators175	Diesel	175	0.59	9.1576	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	6.83E-05	0.000226	0.559488	1.48E-06	1.6E-05	1.55E-05	1.09E-05
1	2026	Taxiways	Excavation	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	9.1576	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000115	0.000494	1.918237	5.07E-06	3.04E-05	2.95E-05	3.94E-05
1	2026	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	9.1576	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000153	0.00062	0.355023	9.53E-07	2.58E-05	2.5E-05	1.26E-05
1	2026	Taxiways	Excavation	Scraper	Scrapers600	Diesel	600	0.59	11.447	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.000713	0.001825	2.397596	6.54E-06	0.000132	0.000128	0.000118
1	2026	Taxiways	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	4.30949	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	3.84E-05	0.000123	0.263288	6.99E-07	9.21E-06	8.93E-06	6.02E-06
1	2026	Taxiways	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	18.33333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00023	0.00099	3.840273	1.01E-05	6.09E-05	5.91E-05	7.88E-05
1	2026	Taxiways	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	73.33333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00092	0.00396	15.36109	4.06E-05	0.000244	0.000236	0.000315
1	2026	Taxiways	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	73.33333	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.001178	0.003613	3.264924	8.93E-06	0.000286	0.000278	0.000205
1	2026	Taxiways	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	73.33333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00092	0.00396	15.36109	4.06E-05	0.000244	0.000236	0.000315
1	2026	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	73.33333	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.003493	0.00483	0.884187	2.71E-06	0.000465	0.000451	0.000659
1	2026	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	73.33333	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.003371	0.003692	1.180071	3.45E-06	0.000462	0.000448	0.000493
1	2026	Taxiways	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	4.6065	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	4.11E-05	0.000132	0.281434	7.47E-07	9.84E-06	9.55E-06	6.44E-06
1	2026	Taxiways	Grading	Grader	Graders300	Diesel	300	0.59	4.6065	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	3.42E-05	0.00014	0.482457	1.28E-06	8.92E-06	8.65E-06	1.11E-05
1	2026	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	4.6065	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	7.71E-05	0.000312	0.178586	4.79E-07	1.3E-05	1.26E-05	6.33E-06
1	2026	Taxiways	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	4.15	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.000805	0.001769	0.869025	2.54E-06	0.00013	0.000126	0.000112
1	2026	Taxiways	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	4.15	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.21E-05	0.000224	0.869298	2.3E-06	1.38E-05	1.34E-05	1.78E-05
1	2026	Taxiways	Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	22.2	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000278	0.001199	4.650221	1.23E-05	7.38E-05	7.16E-05	9.55E-05
1	2026	Taxiways	Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	22.2	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.002055	0.003695	1.581581	4.62E-06	0.000476	0.000462	0.000514
1	2026	Taxiways	Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	22.2	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000357	0.001094	0.988382	2.7E-06	8.67E-05	8.41E-05	6.21E-05
1	2026	Taxiways	Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	22.2	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000278	0.001199	4.650221	1.23E-05	7.38E-05	7.16E-05	9.55E-05
1	2026	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	22.2	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.001057	0.001462	0.267668	8.21E-07	0.000141	0.000137	0.0002
1	2026	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	22.2	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.001021	0.001118	0.35724	1.04E-06	0.00014	0.000136	0.000149
1	2026	Taxiways	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	56.57143	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00071	0.003055	11.84998	3.13E-05	0.000188	0.000182	0.000243
1	2026	Taxiways	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	56.57143	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000909	0.002787	2.518656	6.89E-06	0.000221	0.000214	0.000158
1	2026	Taxiways	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	56.57143	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00071	0.003055	11.84998	3.13E-05	0.000188	0.000182	0.000243
1	2026	Taxiways	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	4	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	6.42E-05	0.000197	0.178087	4.87E-07	1.56E-05	1.52E-05	1.12E-05
1	2026	Taxiways	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0001	0.000432	1.675755	4.43E-06	2.66E-05	2.58E-05	3.44E-05
1	2026	Taxiways	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	4	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	5.14E-05	8.73E-05	0.012383	4.55E-08	5E-06	4.85E-06	1.75E-05

1	2026	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	4	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000184	0.000201	0.064367	1.88E-07	2.52E-05	2.44E-05	2.69E-05
1	2026	Taxiways	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	5.783789	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	5.16E-05	0.000165	0.353361	9.38E-07	1.24E-05	1.2E-05	8.08E-06
1	2026	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	40.70222	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000511	0.002198	8.525871	2.25E-05	0.000135	0.000131	0.000175
1	2026	Taxiways	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	5.783789	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	7.26E-05	0.000312	1.211527	3.2E-06	1.92E-05	1.86E-05	2.49E-05
1	2026	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	5.635692	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	9.43E-05	0.000381	0.218486	5.87E-07	1.59E-05	1.54E-05	7.75E-06
1	2026	Taxiways	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	10.23733	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	9.13E-05	0.000293	0.62545	1.66E-06	2.19E-05	2.12E-05	1.43E-05
1	2026	Taxiways	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	10.23733	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000128	0.000553	2.144408	5.67E-06	3.4E-05	3.3E-05	4.4E-05
1	2026	Taxiways	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	10.23733	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000128	0.000553	2.144408	5.67E-06	3.4E-05	3.3E-05	4.4E-05
2	2026	Terminal /	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	9.9345	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000112	0.000321	0.606939	1.62E-06	2.76E-05	2.68E-05	1.71E-05
2	2026	Terminal /	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	35.77985	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000449	0.001932	7.494785	1.98E-05	0.000119	0.000115	0.000154
2	2026	Terminal /	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	19.869	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000319	0.000979	0.884602	2.42E-06	7.76E-05	7.53E-05	5.56E-05
2	2026	Terminal /	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	9.9345	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000125	0.000536	2.080974	5.5E-06	3.3E-05	3.2E-05	4.27E-05
2	2026	Terminal /	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	9.9345	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000166	0.000672	0.385142	1.03E-06	2.8E-05	2.72E-05	1.37E-05
2	2026	Terminal /	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	9.9345	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000473	0.000654	0.119781	3.68E-07	6.3E-05	6.12E-05	8.93E-05
2	2026	Terminal /	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	12.71616	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000308	0.000778	0.12305	4.52E-07	3.54E-05	3.43E-05	7.27E-05
2	2026	Terminal /	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	21.6	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000452	0.000767	0.108858	4E-07	4.4E-05	4.27E-05	0.000154
2	2026	Terminal /	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	21.6	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000476	0.001297	0.610241	1.67E-06	7.18E-05	6.96E-05	4.3E-05
2	2026	Terminal /	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	28.8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000361	0.001555	6.03272	1.59E-05	9.57E-05	9.29E-05	0.000124
2	2026	Terminal /	Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	26.492	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000583	0.00159	0.748449	2.05E-06	8.81E-05	8.54E-05	5.27E-05
2	2026	Terminal /	Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	26.492	2.90E-01	2.54E+00	5.96E+02	1.57E-03	2.31E-02	2.24E-02	9.35E-02	0.0002	0.001749	0.410668	1.08E-06	1.59E-05	1.54E-05	6.44E-05
2	2026	Terminal /	Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	110.3833	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001385	0.005961	23.12193	6.11E-05	0.000367	0.000356	0.000475
2	2026	Terminal /	Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	52.984	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000851	0.00261	2.358937	6.45E-06	0.000207	0.000201	0.000148
2	2026	Terminal /	Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	79.476	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000997	0.004292	16.64779	4.4E-05	0.000264	0.000256	0.000342
2	2026	Terminal /	Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	26.492	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.002452	0.00441	1.887354	5.51E-06	0.000568	0.000551	0.000613
2	2026	Terminal /	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	26.492	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000298	0.000856	1.618505	4.32E-06	7.36E-05	7.14E-05	4.57E-05
2	2026	Terminal /	Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	26.492	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000643	0.001621	0.256354	9.43E-07	7.37E-05	7.15E-05	0.000152
2	2026	Terminal /	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	11.776	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000105	0.000337	0.719455	1.91E-06	2.52E-05	2.44E-05	1.65E-05
2	2026	Terminal /	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	11.776	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000148	0.000636	2.466712	6.52E-06	3.91E-05	3.8E-05	5.06E-05
2	2026	Terminal /	Drainage -	Excavator	Excavators175	Diesel	175	0.59	11.776	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	8.79E-05	0.000291	0.719461	1.9E-06	2.06E-05	2E-05	1.41E-05
2	2026	Terminal /	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	11.776	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.00109	0.00196	0.83895	2.45E-06	0.000253	0.000245	0.000272
2	2026	Terminal /	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	11.776	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000189	0.00058	0.524287	1.43E-06	4.6E-05	4.46E-05	3.29E-05
2	2026	Terminal /	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	11.776	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000148	0.000636	2.466712	6.52E-06	3.91E-05	3.8E-05	5.06E-05
2	2026	Terminal /	Drainage -	Roller	Rollers100	Diesel	100	0.59	11.776	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000197	0.000797	0.456534	1.23E-06	3.32E-05	3.22E-05	1.62E-05
2	2026	Terminal /	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	6.542222	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.21E-05	0.000353	1.370396	3.62E-06	2.17E-05	2.11E-05	2.81E-05
2	2026	Terminal /	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	6.542222	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000606	0.001089	0.466084	1.36E-06	0.00014	0.000136	0.000151
2	2026	Terminal /	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	6.542222	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000105	0.000322	0.291271	7.97E-07	2.56E-05	2.48E-05	1.83E-05
2	2026	Terminal /	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.542222	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.21E-05	0.000353	1.370396	3.62E-06	2.17E-05	2.11E-05	2.81E-05
2	2026	Terminal /	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	6.542222	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000301	0.000329	0.105277	3.07E-07	4.12E-05	4E-05	4.39E-05
2	2026	Terminal /	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	1440	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.018064	0.077758	301.636	0.000797	0.004786	0.004643	0.006191
2	2026	Terminal /	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	44.15333	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000394	0.001263	2.697548	7.16E-06	9.44E-05	9.15E-05	6.17E-05
2	2026	Terminal /	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	44.15333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000554	0.002384	9.248773	2.44E-05	0.000147	0.000142	0.00019
2	2026	Terminal /	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	44.15333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000554	0.002384	9.248773	2.44E-05	0.000147	0.000142	0.00019
2	2026	Terminal /	Excavatior	Roller	Rollers100	Diesel	100	0.59	20.37846	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000341	0.001379	0.790036	2.12E-06	5.74E-05	5.57E-05	2.8E-05
2	2026	Terminal /	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	33.115	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000295	0.000947	2.023161	5.37E-06	7.08E-05	6.86E-05	4.63E-05
2	2026	Terminal /	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	88.30667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001108	0.004768	18.49755	4.89E-05	0.000294	0.000285	0.00038
2	2026	Terminal /	Excavatior	Excavator	Excavators175	Diesel	175	0.59	26.492	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000198	0.000654	1.618543	4.28E-06	4.63E-05	4.49E-05	3.16E-05
2	2026	Terminal /	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	26.492	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000332	0.001431	5.549264	1.47E-05	8.81E-05	8.54E-05	0.000114
2	2026	Terminal /	Excavatior	Roller	Rollers100	Diesel	100	0.59	26.492	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000443	0.001792	1.027047	2.76E-06	7.47E-05	7.24E-05	3.64E-05
2	2026	Terminal /	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	33.115	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.002062	0.00528	6.936	1.89E-05	0.000381	0.00037	0.000341
2	2026	Terminal /	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	12.46682	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000111	0.000357	0.761661	2.02E-06	2.66E-05	2.58E-05	1.74E-05
2	2026	Terminal /	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	3.977778	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.99E-05	0.000215	0.833223	2.2E-06	1.32E-05	1.28E-05	1.71E-05
2	2026	Terminal /	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	15.91111	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0002	0.000859	3.332891	8.81E-06	5.29E-05	5.13E-05	6.84E-05
2	2026	Terminal /	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	15.91111	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000256	0.000784	0.70839	1.94E-06	6.22E-05	6.03E-05	4.45E-05
2	2026	Terminal /	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	15.91111	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0002	0.000859	3.332891	8.81E-06	5.29E-05	5.13E-05	6.84E-05
2	2026	Terminal /	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	15.91111	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000758	0.001048	0.191842	5.89E-07	0.000101	9.79E-05	0.000143
2	2026	Terminal /	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	15.91111	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000732	0.000801	0.25604	7.48E-07	0.0001	9.72E-05	0.000107
2	2026	Terminal /	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	8.5781	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	7.65E-05	0.000245	0.524079	1.39E-06	1.83E-05	1.78E-05	1.2E-05
2	2026	Terminal /	Grading	Grader	Graders300	Diesel	300	0.59	8.5781	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	6.37E-05	0.00026	0.898419	2.38E-06	1.66E-05	1.61E-05	2.06E-05
2	2026	Terminal /	Grading	Roller	Rollers100	Diesel	100	0.59	8.5781	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000144	0.00058	0.332557	8.93E-07	2.42E-05	2.35E-05	1.18E-05
2	2026	Terminal /	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	7.728	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.001499	0.003294	1.618271	4.72E-06	0.000243	0.000235	0.000209
2	2026	Terminal /	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	7.728	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.69E-05	0.000417	1.61878	4.28E-06	2.57E-05	2.49E-05	3.32E-05
2	2026	Terminal /	Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	7.44	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.33E-05	0.000402	1.558453	4.12E-06	2.47E-05	2.4E-05	3.2E-05
2	2026	Terminal /	Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	7.44	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000689	0.001238	0.530043	1.55E-06	0.00016	0.000155	0.000172
2	2026	Terminal /	Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	7.44	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000119	0.000367	0.331241	9.06E-07	2.91E-05	2.82E-05	2.08E-05
2	2026	Terminal /	Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	7.44	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.33E-05	0.000402	1.558453	4.12E-06	2.47E-05	2.4E-05	3.2E-05
2	2026	Terminal /	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	7.44	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000354	0.00049	0.089705	2.75E-07	4.72E-05	4.58E-05	6.69E-05
2	2026	Terminal /	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	7.44	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000342	0.000375	0.119724	3.5E-07	4.69E-05	4.55E-05	5E-05
2	2026	Terminal /	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	163.6571	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.002053	0.008837	34.28117	9.06E-05	0.000544	0.000528	0.000704
2	2026	Terminal /	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	163.6571	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.002629	0.008063	7.286293	1.99E-05	0.000639	0.00062	0.000458
2	2026	Terminal /	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	163.6571	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.002053	0.008837	34.28117	9.06E-05	0.000544	0.000528	0.000704
2	2026	Terminal /	Sealing/Fu	Distributing Tanker	Off-highway Trucks600	Diesel	600	0.59	21.1936	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000266	0.001144	4.439411	1.17E-05	7.04E-05	6.83E-05	9.11E-05
2	2026	Terminal /	Sealing/Fu	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	21.1936	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.00034	0.001044	0.943575	2.58E-06	8.28E-05	8.03E-05	5.93E-05
2	2026	Terminal /	Sealing/Fu	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	21.1936	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000266	0.001144	4.439411	1.17E-05	7.04E-05	6.83E-05	9.11E-05
2	2026	Terminal /	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	7.2	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000116	0.000355	0.320556	8.77E-07	2.81E-05	2.73E-05	2.01E-05
2	2026	Terminal /	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	14.4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000181	0.000778	3.01636	7.97E-06	4.79E-05	4.64E-05	6.19E-05
2	2026	Terminal /	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	7.2	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	9.26E-05	0.000157	0.02229	8.2E-08	9.01E-06	8.74E-06	3.15E-05
2	2026	Terminal /	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	7.2	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000331	0.000362	0.115861	3.38E-07	4.54E-05	4.4E-05	4.84E-05
2	2026	Terminal /	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	16.73179	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000149	0.000479	1.022229	2.71E-06	3.58E-05	3.47E-05	2.34E-05
2	2026	Terminal /	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	117.7422	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001477	0.006358	24.6634	6.52E-05	0.000391	0.00038	0.000506
2	2026	Terminal /	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	16.73179	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00021	0.000903	3.504798	9.26E-06	5.56E-05	5.39E-05	7.19E-05
2	2026	Terminal /	Subbase P	Roller	Rollers100	Diesel	100	0.59	16.30277	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000273	0.001103	0.632029	1.7E-06	4.59E-05	4.46E-05	2.24E-05
2	2026	Terminal /	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	19.06267	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.00017	0.000545	1.164634	3.09E-06	4.07E-05	3.95E-05	2.66E-05
2	2026	Terminal /	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	19.06267	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000239	0.001029	3.993046	1.05E-05	6.34E-05	6.15E-05	8.2E-05
2	2026	Terminal /	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	19.06267	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000239	0.001029	3.993046	1.05E-05	6.34E-05	6.15E-05	8.2E-05

3	2026	Terminal / Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	10.767	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000121	0.000348	0.6578	1.75E-06	2.99E-05	2.9E-05	1.86E-05
3	2026	Terminal / Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	38.77817	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000486	0.002094	8.12284	2.15E-05	0.000129	0.000125	0.000167
3	2026	Terminal / Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	21.534	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000346	0.001061	0.95873	2.62E-06	8.41E-05	8.16E-05	6.02E-05
3	2026	Terminal / Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	10.767	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000135	0.000581	2.255357	5.96E-06	3.58E-05	3.47E-05	4.63E-05
3	2026	Terminal / Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	10.767	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.00018	0.000729	0.417417	1.12E-06	3.03E-05	2.94E-05	1.48E-05
3	2026	Terminal / Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	10.767	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000513	0.000709	0.129819	3.98E-07	6.83E-05	6.63E-05	9.68E-05
3	2026	Terminal / Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	13.78176	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000334	0.000843	0.133362	4.9E-07	3.83E-05	3.72E-05	7.88E-05
3	2026	Terminal / Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	22.8	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000477	0.00081	0.114905	4.22E-07	4.64E-05	4.5E-05	0.000162
3	2026	Terminal / Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	22.8	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000502	0.001369	0.644143	1.76E-06	7.58E-05	7.35E-05	4.54E-05
3	2026	Terminal / Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	30.4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000381	0.001642	6.367871	1.68E-05	0.000101	9.8E-05	0.000131
3	2026	Terminal / Concrete I	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	28.712	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000632	0.001724	0.811169	2.22E-06	9.54E-05	9.26E-05	5.71E-05
3	2026	Terminal / Concrete I	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	28.712	2.90E-01	2.54E+00	5.96E+02	1.57E-03	2.31E-02	2.24E-02	9.35E-02	0.000217	0.001896	0.445081	1.17E-06	1.73E-05	1.67E-05	6.98E-05
3	2026	Terminal / Concrete I	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	119.6333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001501	0.00646	25.05953	6.62E-05	0.000398	0.000386	0.000514
3	2026	Terminal / Concrete I	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	57.424	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000922	0.002829	2.556614	6.99E-06	0.000224	0.000218	0.000161
3	2026	Terminal / Concrete I	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	86.136	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001081	0.004651	18.04286	4.77E-05	0.000286	0.000278	0.00037
3	2026	Terminal / Concrete I	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	28.712	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.002658	0.004779	2.045512	5.97E-06	0.000616	0.000598	0.000664
3	2026	Terminal / Concrete I	Slip Form Paver	Pavers175	Diesel	175	0.59	28.712	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000323	0.000928	1.754134	4.68E-06	7.98E-05	7.74E-05	4.96E-05
3	2026	Terminal / Concrete I	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	28.712	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000696	0.001757	0.277837	1.02E-06	7.98E-05	7.74E-05	0.000164
3	2026	Terminal / Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	6.72	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	5.99E-05	0.000192	0.410558	1.09E-06	1.44E-05	1.39E-05	9.39E-06
3	2026	Terminal / Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	6.72	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.43E-05	0.000363	1.407635	3.72E-06	2.23E-05	2.17E-05	2.89E-05
3	2026	Terminal / Drainage -	Excavator	Excavators175	Diesel	175	0.59	6.72	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	5.02E-05	0.000166	0.410562	1.09E-06	1.18E-05	1.14E-05	8.03E-06
3	2026	Terminal / Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	6.72	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000622	0.001119	0.478749	1.4E-06	0.000144	0.00014	0.000155
3	2026	Terminal / Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	6.72	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000108	0.000331	0.299186	8.18E-07	2.63E-05	2.55E-05	1.88E-05
3	2026	Terminal / Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.72	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.43E-05	0.000363	1.407635	3.72E-06	2.23E-05	2.17E-05	2.89E-05
3	2026	Terminal / Drainage -	Roller	Rollers100	Diesel	100	0.59	6.72	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000112	0.000455	0.260522	6.99E-07	1.89E-05	1.84E-05	9.24E-06
3	2026	Terminal / Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	3.733333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.68E-05	0.000202	0.782019	2.07E-06	1.24E-05	1.2E-05	1.61E-05
3	2026	Terminal / Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	3.733333	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000346	0.000621	0.265972	7.76E-07	8.01E-05	7.77E-05	8.64E-05
3	2026	Terminal / Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	3.733333	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	6E-05	0.000184	0.166214	4.55E-07	1.46E-05	1.41E-05	1.04E-05
3	2026	Terminal / Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	3.733333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.68E-05	0.000202	0.782019	2.07E-06	1.24E-05	1.2E-05	1.61E-05
3	2026	Terminal / Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	3.733333	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000172	0.000188	0.060076	1.75E-07	2.35E-05	2.28E-05	2.51E-05
3	2026	Terminal / Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	1440	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.018064	0.077758	301.636	0.000797	0.004786	0.004643	0.006191
3	2026	Terminal / Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	47.85333	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000427	0.001369	2.9236	7.76E-06	0.000102	9.92E-05	6.69E-05
3	2026	Terminal / Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	47.85333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0006	0.002584	10.02381	2.65E-05	0.000159	0.000154	0.000206
3	2026	Terminal / Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	47.85333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0006	0.002584	10.02381	2.65E-05	0.000159	0.000154	0.000206
3	2026	Terminal / Excavatior	Roller	Rollers100	Diesel	100	0.59	22.08615	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.00037	0.001494	0.85624	2.3E-06	6.22E-05	6.04E-05	3.04E-05
3	2026	Terminal / Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	35.89	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.00032	0.001027	2.1927	5.82E-06	7.67E-05	7.44E-05	5.02E-05
3	2026	Terminal / Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	95.70667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001201	0.005168	20.04762	5.3E-05	0.000318	0.000309	0.000411
3	2026	Terminal / Excavatior	Excavator	Excavators175	Diesel	175	0.59	28.712	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000214	0.000709	1.754175	4.64E-06	5.02E-05	4.87E-05	3.43E-05
3	2026	Terminal / Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	28.712	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00036	0.00155	6.014286	1.59E-05	9.54E-05	9.26E-05	0.000123
3	2026	Terminal / Excavatior	Roller	Rollers100	Diesel	100	0.59	28.712	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000481	0.001943	1.113112	2.99E-06	8.09E-05	7.85E-05	3.95E-05
3	2026	Terminal / Excavatior	Scraper	Scrapers600	Diesel	600	0.59	35.89	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.002235	0.005722	7.517229	2.05E-05	0.000413	0.000401	0.00037
3	2026	Terminal / Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	13.51153	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.00012	0.000386	0.825487	2.19E-06	2.89E-05	2.8E-05	1.89E-05
3	2026	Terminal / Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	2.222222	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	2.79E-05	0.00012	0.465488	1.23E-06	7.39E-06	7.16E-06	9.55E-06
3	2026	Terminal / Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	8.888889	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000112	0.00048	1.86195	4.92E-06	2.95E-05	2.87E-05	3.82E-05
3	2026	Terminal / Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	8.888889	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000143	0.000438	0.395748	1.08E-06	3.47E-05	3.37E-05	2.49E-05
3	2026	Terminal / Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	8.888889	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000112	0.00048	1.86195	4.92E-06	2.95E-05	2.87E-05	3.82E-05
3	2026	Terminal / Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	8.888889	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000423	0.000585	0.107174	3.29E-07	5.64E-05	5.47E-05	7.99E-05
3	2026	Terminal / Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	8.888889	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000409	0.000447	0.143039	4.18E-07	5.6E-05	5.43E-05	5.97E-05
3	2026	Terminal / Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	9.2774	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	8.27E-05	0.000265	0.566803	1.5E-06	1.98E-05	1.92E-05	1.3E-05
3	2026	Terminal / Grading	Grader	Graders300	Diesel	300	0.59	9.2774	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	6.89E-05	0.000281	0.971659	2.57E-06	1.8E-05	1.74E-05	2.23E-05
3	2026	Terminal / Grading	Roller	Rollers100	Diesel	100	0.59	9.2774	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000155	0.000628	0.359668	9.66E-07	2.61E-05	2.54E-05	1.28E-05
3	2026	Terminal / Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	8.358	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.001621	0.003563	1.750196	5.11E-06	0.000263	0.000255	0.000226
3	2026	Terminal / Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	8.358	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000105	0.000451	1.750745	4.63E-06	2.78E-05	2.69E-05	3.59E-05
3	2026	Terminal / Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	7.84	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.83E-05	0.000423	1.64224	4.34E-06	2.61E-05	2.53E-05	3.37E-05
3	2026	Terminal / Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	7.84	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000726	0.001305	0.55854	1.63E-06	0.000168	0.000163	0.000181
3	2026	Terminal / Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	7.84	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000126	0.000386	0.34905	9.55E-07	3.06E-05	2.97E-05	2.19E-05
3	2026	Terminal / Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	7.84	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.83E-05	0.000423	1.64224	4.34E-06	2.61E-05	2.53E-05	3.37E-05
3	2026	Terminal / Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	7.84	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000373	0.000516	0.094528	2.9E-07	4.98E-05	4.83E-05	7.05E-05
3	2026	Terminal / Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	7.84	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.00036	0.000395	0.12616	3.68E-07	4.94E-05	4.79E-05	5.27E-05
3	2026	Terminal / Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	177.3714	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.002225	0.009578	37.15389	9.82E-05	0.00059	0.000572	0.000763
3	2026	Terminal / Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	177.3714	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.002849	0.008739	7.896876	2.16E-05	0.000693	0.000672	0.000496
3	2026	Terminal / Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	177.3714	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.002225	0.009578	37.15389	9.82E-05	0.00059	0.000572	0.000763
3	2026	Terminal / Sealing/Fu	Distributing Tanker	Off-highway Trucks600	Diesel	600	0.59	22.9696	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000288	0.00124	4.811429	1.27E-05	7.63E-05	7.41E-05	9.88E-05
3	2026	Terminal / Sealing/Fu	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	22.9696	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000369	0.001132	1.022645	2.8E-06	8.97E-05	8.7E-05	6.42E-05
3	2026	Terminal / Sealing/Fu	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	22.9696	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000288	0.00124	4.811429	1.27E-05	7.63E-05	7.41E-05	9.88E-05
3	2026	Terminal / Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	7.6	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000122	0.000374	0.338365	9.26E-07	2.97E-05	2.88E-05	2.13E-05
3	2026	Terminal / Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	15.2	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000191	0.000821	3.183935	8.41E-06	5.05E-05	4.9E-05	6.54E-05
3	2026	Terminal / Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	7.6	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	9.77E-05	0.000166	0.023528	8.65E-08	9.51E-06	9.22E-06	3.32E-05
3	2026	Terminal / Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	7.6	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000349	0.000383	0.122298	3.57E-07	4.79E-05	4.64E-05	5.1E-05
3	2026	Terminal / Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	18.13389	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000162	0.000519	1.10789	2.94E-06	3.88E-05	3.76E-05	2.53E-05
3	2026	Terminal / Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	127.6089	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001601	0.006891	26.73016	7.06E-05	0.000424	0.000411	0.000549
3	2026	Terminal / Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	18.13389	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000227	0.000979	3.798497	1E-05	6.03E-05	5.85E-05	7.8E-05
3	2026	Terminal / Subbase P	Roller	Rollers100	Diesel	100	0.59	17.66892	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000296	0.001196	0.684992	1.84E-06	4.98E-05	4.83E-05	2.43E-05
3	2026	Terminal / Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	20.616	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000184	0.00059	1.259535	3.34E-06	4.41E-05	4.27E-05	2.88E-05
3	2026	Terminal / Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	20.616	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000259	0.001113	4.318422	1.14E-05	6.85E-05	6.65E-05	8.86E-05
3	2026	Terminal / Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	20.616	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000259	0.001113	4.318422	1.14E-05	6.85E-05	6.65E-05	8.86E-05
4	2026	Taxiways Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	3.724	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	4.19E-05	0.00012	0.227514	6.07E-07	1.03E-05	1E-05	6.43E-06
4	2026	Taxiways Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	13.41227	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000168	0.000724	2.80946	7.42E-06	4.46E-05	4.32E-05	5.77E-05
4	2026	Taxiways Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	7.448	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.00012	0.000367	0.331598	9.07E-07	2.91E-05	2.82E-05	2.08E-05
4	2026	Taxiways Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	3.724	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.67E-05	0.000201	0.780064	2.06E-06	1.24E-05	1.2E-05	1.6E-05
4	2026	Taxiways Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	3.724	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	6.23E-05	0.000252	0.144373	3.88E-07	1.05E-05	1.02E-05	5.12E-06
4	2026	Taxiways Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	3.724	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000177	0.000245	0.044901	1.38E-07	2.36E-05	2.29E-05	3.35E-05
4	2026	Taxiways Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	4.76672	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000116	0.000292	0.046126	1.7E-07	1.33E-05	1.29E-05	2.73E-05
4	2026	Taxiways Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	10.8	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000226	0.000384	0.054429	2E-07	2.2E-05	2.13E-05	7.68E-05

4	2026	Taxiways	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	10.8	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000238	0.000648	0.305121	8.35E-07	3.59E-05	3.48E-05	2.15E-05
4	2026	Taxiways	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	14.4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000181	0.000778	3.01636	7.97E-06	4.79E-05	4.64E-05	6.19E-05
4	2026	Taxiways	Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	9.9312	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000219	0.000596	0.280575	7.68E-07	3.3E-05	3.2E-05	1.98E-05
4	2026	Taxiways	Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	9.9312	2.90E-01	2.54E+00	5.96E+02	1.57E-03	2.31E-02	2.24E-02	9.35E-02	7.49E-05	0.000656	0.153949	4.06E-07	5.97E-06	5.79E-06	2.41E-05
4	2026	Taxiways	Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	41.38	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000519	0.002234	8.667845	2.29E-05	0.000138	0.000133	0.000178
4	2026	Taxiways	Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	19.8624	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000319	0.000979	0.884308	2.42E-06	7.76E-05	7.53E-05	5.55E-05
4	2026	Taxiways	Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	29.7936	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000374	0.001609	6.240848	1.65E-05	9.9E-05	9.61E-05	0.000128
4	2026	Taxiways	Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	9.9312	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000919	0.001653	0.707523	2.06E-06	0.000213	0.000207	0.00023
4	2026	Taxiways	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	9.9312	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000112	0.000321	0.606738	1.62E-06	2.76E-05	2.68E-05	1.71E-05
4	2026	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	9.9312	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000241	0.000608	0.096101	3.53E-07	2.76E-05	2.68E-05	5.68E-05
4	2026	Taxiways	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	39.36	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000351	0.001126	2.404699	6.38E-06	8.41E-05	8.16E-05	5.5E-05
4	2026	Taxiways	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	39.36	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000494	0.002125	8.244717	2.18E-05	0.000131	0.000127	0.000169
4	2026	Taxiways	Drainage -	Excavator	Excavators175	Diesel	175	0.59	39.36	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000294	0.000972	2.40472	6.36E-06	6.88E-05	6.68E-05	4.7E-05
4	2026	Taxiways	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	39.36	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.003644	0.006551	2.804101	8.18E-06	0.000844	0.000819	0.000911
4	2026	Taxiways	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	39.36	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000632	0.001939	1.752374	4.79E-06	0.000154	0.000149	0.00011
4	2026	Taxiways	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	39.36	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000494	0.002125	8.244717	2.18E-05	0.000131	0.000127	0.000169
4	2026	Taxiways	Drainage -	Roller	Rollers100	Diesel	100	0.59	39.36	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000659	0.002663	1.525916	4.1E-06	0.000111	0.000108	5.41E-05
4	2026	Taxiways	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	21.86667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000274	0.001181	4.580398	1.21E-05	7.27E-05	7.05E-05	9.4E-05
4	2026	Taxiways	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	21.86667	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.002024	0.00364	1.557834	4.55E-06	0.000469	0.000455	0.000506
4	2026	Taxiways	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	21.86667	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000351	0.001077	0.973541	2.66E-06	8.54E-05	8.29E-05	6.11E-05
4	2026	Taxiways	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	21.86667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000274	0.001181	4.580398	1.21E-05	7.27E-05	7.05E-05	9.4E-05
4	2026	Taxiways	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	21.86667	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.001005	0.001101	0.351876	1.03E-06	0.000138	0.000134	0.000147
4	2026	Taxiways	Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	1440	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.018064	0.077758	301.636	0.000797	0.004786	0.004643	0.006191
4	2026	Taxiways	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	16.552	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000148	0.000473	1.011244	2.68E-06	3.54E-05	3.43E-05	2.31E-05
4	2026	Taxiways	Excavation	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	16.552	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000208	0.000894	3.467138	9.16E-06	5.5E-05	5.34E-05	7.12E-05
4	2026	Taxiways	Excavation	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	16.552	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000208	0.000894	3.467138	9.16E-06	5.5E-05	5.34E-05	7.12E-05
4	2026	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	7.639385	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000128	0.000517	0.296165	7.95E-07	2.15E-05	2.09E-05	1.05E-05
4	2026	Taxiways	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	12.414	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000111	0.000355	0.758433	2.01E-06	2.65E-05	2.57E-05	1.74E-05
4	2026	Taxiways	Excavation	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	33.104	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000415	0.001788	6.934276	1.83E-05	0.00011	0.000107	0.000142
4	2026	Taxiways	Excavation	Excavator	Excavators175	Diesel	175	0.59	9.9312	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	7.41E-05	0.000245	0.606752	1.6E-06	1.74E-05	1.69E-05	1.19E-05
4	2026	Taxiways	Excavation	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	9.9312	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000125	0.000536	2.080283	5.5E-06	3.3E-05	3.2E-05	4.27E-05
4	2026	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	9.9312	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000166	0.000672	0.385015	1.03E-06	2.8E-05	2.72E-05	1.37E-05
4	2026	Taxiways	Excavation	Scraper	Scrapers600	Diesel	600	0.59	12.414	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.000773	0.001979	2.600136	7.09E-06	0.000143	0.000139	0.000128
4	2026	Taxiways	Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	4.673255	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	4.17E-05	0.000134	0.285513	7.58E-07	9.99E-06	9.69E-06	6.53E-06
4	2026	Taxiways	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	13.55556	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00017	0.000732	2.839474	7.5E-06	4.51E-05	4.37E-05	5.83E-05
4	2026	Taxiways	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	54.22222	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00068	0.002928	11.3579	3E-05	0.00018	0.000175	0.000233
4	2026	Taxiways	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	54.22222	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000871	0.002671	2.414065	6.6E-06	0.000212	0.000205	0.000152
4	2026	Taxiways	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	54.22222	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00068	0.002928	11.3579	3E-05	0.00018	0.000175	0.000233
4	2026	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	54.22222	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.002583	0.003571	0.653763	2.01E-06	0.000344	0.000334	0.000488
4	2026	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	54.22222	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.002493	0.00273	0.872537	2.55E-06	0.000342	0.000331	0.000364
4	2026	Taxiways	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	4.369	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	3.9E-05	0.000125	0.266924	7.08E-07	9.34E-06	9.06E-06	6.11E-06
4	2026	Taxiways	Grading	Grader	Graders300	Diesel	300	0.59	4.369	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	3.24E-05	0.000133	0.457583	1.21E-06	8.46E-06	8.2E-06	1.05E-05
4	2026	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	4.369	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	7.31E-05	0.000296	0.169378	4.55E-07	1.23E-05	1.19E-05	6.01E-06
4	2026	Taxiways	Hydroseed	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	3.936	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.000763	0.001678	0.824213	2.4E-06	0.000124	0.00012	0.000106
4	2026	Taxiways	Hydroseed	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	3.936	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.94E-05	0.000213	0.824472	2.18E-06	1.31E-05	1.27E-05	1.69E-05
4	2026	Taxiways	Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	16.56	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000208	0.000894	3.468814	9.16E-06	5.5E-05	5.34E-05	7.12E-05
4	2026	Taxiways	Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	16.56	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.001533	0.002756	1.179774	3.44E-06	0.000355	0.000345	0.000383
4	2026	Taxiways	Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	16.56	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000266	0.000816	0.737279	2.02E-06	6.47E-05	6.28E-05	4.63E-05
4	2026	Taxiways	Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	16.56	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000208	0.000894	3.468814	9.16E-06	5.5E-05	5.34E-05	7.12E-05
4	2026	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	16.56	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000789	0.001091	0.199666	6.13E-07	0.000105	0.000102	0.000149
4	2026	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	16.56	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000761	0.000834	0.266481	7.78E-07	0.000104	0.000101	0.000111
4	2026	Taxiways	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	61.34857	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00077	0.003313	12.85065	3.4E-05	0.000204	0.000198	0.000264
4	2026	Taxiways	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	61.34857	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000985	0.003023	2.731342	7.47E-06	0.00024	0.000232	0.000172
4	2026	Taxiways	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	61.34857	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00077	0.003313	12.85065	3.4E-05	0.000204	0.000198	0.000264
4	2026	Taxiways	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	3.6	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	5.78E-05	0.000177	0.160278	4.38E-07	1.41E-05	1.36E-05	1.01E-05
4	2026	Taxiways	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	7.2	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.03E-05	0.000389	1.50818	3.98E-06	2.39E-05	2.32E-05	3.1E-05
4	2026	Taxiways	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	3.6	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	4.63E-05	7.85E-05	0.011145	4.1E-08	4.5E-06	4.37E-06	1.57E-05
4	2026	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	3.6	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000166	0.000181	0.057931	1.69E-07	2.27E-05	2.2E-05	2.42E-05
4	2026	Taxiways	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	6.272	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	5.59E-05	0.000179	0.383188	1.02E-06	1.34E-05	1.3E-05	8.77E-06
4	2026	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	44.13778	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000554	0.002383	9.245515	2.44E-05	0.000147	0.000142	0.00019
4	2026	Taxiways	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.272	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	7.87E-05	0.000339	1.313792	3.47E-06	2.08E-05	2.02E-05	2.7E-05
4	2026	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	6.111385	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000102	0.000414	0.236927	6.36E-07	1.72E-05	1.67E-05	8.4E-06
4	2026	Taxiways	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	9.709333	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	8.66E-05	0.000278	0.593192	1.57E-06	2.07E-05	2.01E-05	1.36E-05
4	2026	Taxiways	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	9.709333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000122	0.000524	2.033809	5.37E-06	3.23E-05	3.13E-05	4.17E-05
4	2026	Taxiways	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	9.709333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000122	0.000524	2.033809	5.37E-06	3.23E-05	3.13E-05	4.17E-05
5	2026	Taxiways	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	2.332625	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	2.62E-05	7.54E-05	0.14251	3.8E-07	6.48E-06	6.29E-06	4.03E-06
5	2026	Taxiways	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	8.401125	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000105	0.000454	1.759779	4.65E-06	2.79E-05	2.71E-05	3.61E-05
5	2026	Taxiways	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	4.66525	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	7.49E-05	0.00023	0.207705	5.68E-07	1.82E-05	1.77E-05	1.3E-05
5	2026	Taxiways	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	2.332625	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	2.93E-05	0.000126	0.488614	1.29E-06	7.75E-06	7.52E-06	1E-05
5	2026	Taxiways	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	2.332625	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	3.9E-05	0.000158	0.090432	2.43E-07	6.57E-06	6.38E-06	3.21E-06
5	2026	Taxiways	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	2.332625	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000111	0.000154	0.028125	8.63E-08	1.48E-05	1.44E-05	2.1E-05
5	2026	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	2.98576	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	7.24E-05	0.000183	0.028892	1.06E-07	8.3E-06	8.05E-06	1.71E-05
5	2026	Taxiways	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	7.2	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000151	0.000256	0.036286	1.33E-07	1.47E-05	1.42E-05	5.12E-05
5	2026	Taxiways	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	7.2	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000159	0.000432	0.203414	5.57E-07	2.39E-05	2.32E-05	1.43E-05
5	2026	Taxiways	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	9.6	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00012	0.000518	2.010907	5.31E-06	3.19E-05	3.1E-05	4.13E-05
5	2026	Taxiways	Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	6.2208	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000137	0.000373	0.175749	4.81E-07	2.07E-05	2.01E-05	1.24E-05
5	2026	Taxiways	Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	6.2208	2.90E-01	2.54E+00	5.96E+02	1.57E-03	2.31E-02	2.24E-02	9.35E-02	4.69E-05	0.000411	0.096432	2.54E-07	3.74E-06	3.63E-06	1.51E-05
5	2026	Taxiways	Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	25.92	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000325	0.0014	5.429448	1.43E-05	8.62E-05	8.36E-05	0.000111
5	2026	Taxiways	Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	12.4416	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.0002	0.000613	0.553921	1.52E-06	4.86E-05	4.71E-05	3.48E-05
5	2026	Taxiways	Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	18.6624	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000234	0.001008	3.909202	1.03E-05	6.2E-05	6.02E-05	8.02E-05
5	2026	Taxiways	Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	6.2208	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000576	0.001035	0.443185	1.29E-06	0.000133	0.000129	0.000144
5	2026	Taxiways	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	6.2208	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	6.99E-05	0.000201	0.380054	1.01E-06	1.73E-05	1.68E-05	1.07E-05
5	2026	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	6.2208	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000151	0.000381	0.060197	2.21E-07	1.73E-05	1.68E-05	3.56E-05
5	2026	Taxiways	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	30.208	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000269	0.000864	1.845558	4.9E-06	6.46E-05	6.26E-05	4.22E-05

5	2026	Taxiways	Drainage - Dump Truck	Off-highway Trucks600	Diesel	600	0.59	30.208	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000379	0.001631	6.327652	1.67E-05	0.0001	9.74E-05	0.00013
5	2026	Taxiways	Drainage - Excavator	Excavators175	Diesel	175	0.59	30.208	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000225	0.000746	1.845574	4.88E-06	5.28E-05	5.13E-05	3.61E-05
5	2026	Taxiways	Drainage - Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	30.208	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.002796	0.005028	2.15209	6.28E-06	0.000648	0.000629	0.000699
5	2026	Taxiways	Drainage - Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	30.208	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000485	0.001488	1.344911	3.68E-06	0.000118	0.000114	8.45E-05
5	2026	Taxiways	Drainage - Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	30.208	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000379	0.001631	6.327652	1.67E-05	0.0001	9.74E-05	0.00013
5	2026	Taxiways	Drainage - Roller	Rollers100	Diesel	100	0.59	30.208	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000506	0.002044	1.171109	3.14E-06	8.51E-05	8.26E-05	4.15E-05
5	2026	Taxiways	Drainage - Dump Truck	Off-highway Trucks600	Diesel	600	0.59	16.78222	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000211	0.000906	3.515362	9.29E-06	5.58E-05	5.41E-05	7.22E-05
5	2026	Taxiways	Drainage - Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	16.78222	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.001554	0.002793	1.195606	3.49E-06	0.00036	0.000349	0.000388
5	2026	Taxiways	Drainage - Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	16.78222	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.00027	0.000827	0.747173	2.04E-06	6.56E-05	6.36E-05	4.69E-05
5	2026	Taxiways	Drainage - Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	16.78222	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000211	0.000906	3.515362	9.29E-06	5.58E-05	5.41E-05	7.22E-05
5	2026	Taxiways	Drainage - Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	16.78222	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000772	0.000845	0.270057	7.89E-07	0.000106	0.000103	0.000113
5	2026	Taxiways	Dust Contı Water Truck	Off-highway Trucks600	Diesel	600	0.59	1440	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.018064	0.077758	301.636	0.000797	0.004786	0.004643	0.006191
5	2026	Taxiways	Excavatior Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	10.368	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	9.24E-05	0.000297	0.633433	1.68E-06	2.22E-05	2.15E-05	1.45E-05
5	2026	Taxiways	Excavatior Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	10.368	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00013	0.00056	2.171779	5.74E-06	3.45E-05	3.34E-05	4.46E-05
5	2026	Taxiways	Excavatior Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	10.368	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00013	0.00056	2.171779	5.74E-06	3.45E-05	3.34E-05	4.46E-05
5	2026	Taxiways	Excavatior Roller	Rollers100	Diesel	100	0.59	4.785231	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	8.01E-05	0.000324	0.185515	4.98E-07	1.35E-05	1.31E-05	6.58E-06
5	2026	Taxiways	Excavatior Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	7.776	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	6.93E-05	0.000222	0.475075	1.26E-06	1.66E-05	1.61E-05	1.09E-05
5	2026	Taxiways	Excavatior Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	20.736	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00026	0.00112	4.343558	1.15E-05	6.89E-05	6.69E-05	8.92E-05
5	2026	Taxiways	Excavatior Excavator	Excavators175	Diesel	175	0.59	6.2208	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	4.64E-05	0.000154	0.380063	1.01E-06	1.09E-05	1.06E-05	7.43E-06
5	2026	Taxiways	Excavatior Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.2208	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	7.8E-05	0.000336	1.303067	3.44E-06	2.07E-05	2.01E-05	2.67E-05
5	2026	Taxiways	Excavatior Roller	Rollers100	Diesel	100	0.59	6.2208	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000104	0.000421	0.241169	6.47E-07	1.75E-05	1.7E-05	8.55E-06
5	2026	Taxiways	Excavatior Scraper	Scrapers600	Diesel	600	0.59	7.776	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.000484	0.00124	1.628698	4.44E-06	8.95E-05	8.68E-05	8.01E-05
5	2026	Taxiways	Excavatior Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	2.927216	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	2.61E-05	8.37E-05	0.178838	4.75E-07	6.26E-06	6.07E-06	4.09E-06
5	2026	Taxiways	Fencing Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	10.37778	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00013	0.00056	2.173827	5.74E-06	3.45E-05	3.35E-05	4.46E-05
5	2026	Taxiways	Fencing Dump Truck	Off-highway Trucks600	Diesel	600	0.59	41.51111	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000521	0.002242	8.695309	2.3E-05	0.000138	0.000134	0.000178
5	2026	Taxiways	Fencing Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	41.51111	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000667	0.002045	1.848145	5.06E-06	0.000162	0.000157	0.000116
5	2026	Taxiways	Fencing Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	41.51111	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000521	0.002242	8.695309	2.3E-05	0.000138	0.000134	0.000178
5	2026	Taxiways	Fencing Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	41.51111	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.001977	0.002734	0.500503	1.54E-06	0.000263	0.000256	0.000373
5	2026	Taxiways	Fencing Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	41.51111	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.001908	0.00209	0.667992	1.95E-06	0.000261	0.000254	0.000279
5	2026	Taxiways	Grading Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	2.934	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	2.62E-05	8.39E-05	0.179253	4.76E-07	6.27E-06	6.08E-06	4.1E-06
5	2026	Taxiways	Grading Grader	Graders300	Diesel	300	0.59	2.934	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	2.18E-05	8.9E-05	0.30729	8.14E-07	5.68E-06	5.51E-06	7.05E-06
5	2026	Taxiways	Grading Roller	Rollers100	Diesel	100	0.59	2.934	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	4.91E-05	0.000199	0.113746	3.05E-07	8.27E-06	8.02E-06	4.03E-06
5	2026	Taxiways	Hydroseec Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	2.6432	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.000513	0.001127	0.553496	1.61E-06	8.3E-05	8.05E-05	7.13E-05
5	2026	Taxiways	Hydroseec Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	2.6432	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	3.32E-05	0.000143	0.55367	1.46E-06	8.79E-06	8.52E-06	1.14E-05
5	2026	Taxiways	Lighting Dump Truck	Off-highway Trucks600	Diesel	600	0.59	12.69333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000159	0.000685	2.658865	7.02E-06	4.22E-05	4.09E-05	5.46E-05
5	2026	Taxiways	Lighting Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	12.69333	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.001175	0.002113	0.904304	2.64E-06	0.000272	0.000264	0.000294
5	2026	Taxiways	Lighting Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	12.69333	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000204	0.000625	0.565129	1.55E-06	4.96E-05	4.81E-05	3.55E-05
5	2026	Taxiways	Lighting Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	12.69333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000159	0.000685	2.658865	7.02E-06	4.22E-05	4.09E-05	5.46E-05
5	2026	Taxiways	Lighting Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	12.69333	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000605	0.000836	0.153045	4.7E-07	8.06E-05	7.81E-05	0.000114
5	2026	Taxiways	Lighting Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	12.69333	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000584	0.000639	0.20426	5.97E-07	8E-05	7.76E-05	8.53E-05
5	2026	Taxiways	Markings Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	38.42743	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000482	0.002075	8.049371	2.13E-05	0.000128	0.000124	0.000165
5	2026	Taxiways	Markings Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	38.42743	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000617	0.001893	1.710854	4.68E-06	0.00015	0.000146	0.000107
5	2026	Taxiways	Markings Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	38.42743	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000482	0.002075	8.049371	2.13E-05	0.000128	0.000124	0.000165
5	2026	Taxiways	Soil Erosio Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	2.4	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	3.85E-05	0.000118	0.106852	2.92E-07	9.38E-06	9.09E-06	6.71E-06
5	2026	Taxiways	Soil Erosio Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	4.8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	6.02E-05	0.000259	1.005453	2.66E-06	1.6E-05	1.55E-05	2.06E-05
5	2026	Taxiways	Soil Erosio Pumps	Other Construction Equipment11	Diesel	11	0.43	2.4	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	3.09E-05	5.24E-05	0.00743	2.73E-08	3E-06	2.91E-06	1.05E-05
5	2026	Taxiways	Soil Erosio Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	2.4	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.00011	0.000121	0.03862	1.13E-07	1.51E-05	1.47E-05	1.61E-05
5	2026	Taxiways	Subbase P Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	3.928632	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	3.5E-05	0.000112	0.24002	6.37E-07	8.4E-06	8.14E-06	5.49E-06
5	2026	Taxiways	Subbase P Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	27.64444	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000347	0.001493	5.790666	1.53E-05	9.19E-05	8.91E-05	0.000119
5	2026	Taxiways	Subbase P Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	3.928632	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.93E-05	0.000212	0.822928	2.17E-06	1.31E-05	1.27E-05	1.69E-05
5	2026	Taxiways	Subbase P Roller	Rollers100	Diesel	100	0.59	3.827692	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	6.41E-05	0.000259	0.148393	3.98E-07	1.08E-05	1.05E-05	5.26E-06
5	2026	Taxiways	Topsoil Pla Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	6.52	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	5.81E-05	0.000186	0.398339	1.06E-06	1.39E-05	1.35E-05	9.11E-06
5	2026	Taxiways	Topsoil Pla Dump Truck	Off-highway Trucks600	Diesel	600	0.59	6.52	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.18E-05	0.000352	1.365741	3.61E-06	2.17E-05	2.1E-05	2.8E-05
5	2026	Taxiways	Topsoil Pla Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.52	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.18E-05	0.000352	1.365741	3.61E-06	2.17E-05	2.1E-05	2.8E-05
6	2026	Taxiways	Asphalt Pl Asphalt Paver	Pavers175	Diesel	175	0.59	7.965375	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	8.95E-05	0.000258	0.486637	1.3E-06	2.21E-05	2.15E-05	1.37E-05
6	2026	Taxiways	Asphalt Pl Dump Truck	Off-highway Trucks600	Diesel	600	0.59	28.6879	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00036	0.001549	6.009238	1.59E-05	9.54E-05	9.25E-05	0.000123
6	2026	Taxiways	Asphalt Pl Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	15.93075	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000256	0.000785	0.709264	1.94E-06	6.22E-05	6.04E-05	4.45E-05
6	2026	Taxiways	Asphalt Pl Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	7.965375	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.99E-05	0.00043	1.668503	4.41E-06	2.65E-05	2.57E-05	3.42E-05
6	2026	Taxiways	Asphalt Pl Roller	Rollers100	Diesel	100	0.59	7.965375	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000133	0.000539	0.308803	8.29E-07	2.24E-05	2.18E-05	1.09E-05
6	2026	Taxiways	Asphalt Pl Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	7.965375	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000379	0.000525	0.096039	2.95E-07	5.06E-05	4.9E-05	7.16E-05
6	2026	Taxiways	Asphalt Pl Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	10.19568	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000247	0.000624	0.09866	3.63E-07	2.84E-05	2.75E-05	5.83E-05
6	2026	Taxiways	Clearing a Chain Saw	Other Construction Equipment11	Diesel	11	0.7	26.4	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000553	0.000937	0.133048	4.89E-07	5.38E-05	5.21E-05	0.000188
6	2026	Taxiways	Clearing a Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	26.4	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000581	0.001585	0.74585	2.04E-06	8.77E-05	8.51E-05	5.25E-05
6	2026	Taxiways	Clearing a Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	35.2	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000442	0.001901	7.373324	1.95E-05	0.000117	0.000113	0.000151
6	2026	Taxiways	Concrete I Air Compressor	Other Construction Equipment100	Diesel	100	0.43	21.2408	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000468	0.001275	0.600093	1.64E-06	7.06E-05	6.85E-05	4.23E-05
6	2026	Taxiways	Concrete I Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	21.2408	2.90E-01	2.54E+00	5.96E+02	1.57E-03	2.31E-02	2.24E-02	9.35E-02	0.00016	0.001403	0.329266	8.69E-07	1.28E-05	1.24E-05	5.16E-05
6	2026	Taxiways	Concrete I Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	88.50333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00111	0.004779	18.53874	4.9E-05	0.000294	0.000285	0.000381
6	2026	Taxiways	Concrete I Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	42.4816	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000682	0.002093	1.891353	5.17E-06	0.000166	0.000161	0.000119
6	2026	Taxiways	Concrete I Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	63.7224	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000799	0.003441	13.34789	3.53E-05	0.000212	0.000205	0.000274
6	2026	Taxiways	Concrete I Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	21.2408	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.001966	0.003535	1.513246	4.42E-06	0.000456	0.000442	0.000491
6	2026	Taxiways	Concrete I Slip Form Paver	Pavers175	Diesel	175	0.59	21.2408	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000239	0.000687	1.297687	3.46E-06	5.9E-05	5.72E-05	3.67E-05
6	2026	Taxiways	Concrete I Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	21.2408	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000515	0.0013	0.20554	7.56E-07	5.91E-05	5.73E-05	0.000122
6	2026	Taxiways	Drainage - Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	115.136	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.001027	0.003293	7.034234	1.87E-05	0.000246	0.000239	0.000161
6	2026	Taxiways	Drainage - Dump Truck	Off-highway Trucks600	Diesel	600	0.59	115.136	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001444	0.006217	24.11747	6.37E-05	0.000383	0.000371	0.000495
6	2026	Taxiways	Drainage - Excavator	Excavators175	Diesel	175	0.59	115.136	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000859	0.002844	7.034296	1.86E-05	0.000201	0.000195	0.000137
6	2026	Taxiways	Drainage - Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	115.136	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.010658	0.019164	8.202565	2.39E-05	0.00247	0.002396	0.002664
6	2026	Taxiways	Drainage - Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	115.136	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.001849	0.005673	5.12605	1.4E-05	0.00045	0.000436	0.000322
6	2026	Taxiways	Drainage - Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	115.136	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001444	0.006217	24.11747	6.37E-05	0.000383	0.000371	0.000495
6	2026	Taxiways	Drainage - Roller	Rollers100	Diesel	100	0.59	115.136	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.001927	0.00779	4.463613	1.2E-05	0.000325	0.000315	0.000158
6	2026	Taxiways	Drainage - Dump Truck	Off-highway Trucks600	Diesel	600	0.59	63.96444	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000802	0.003454	13.3986	3.54E-05	0.000213	0.000206	0.000275
6	2026	Taxiways	Drainage - Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	63.96444	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.005921	0.010647	4.55698	1.33E-05	0.001372	0.001331	0.00148
6	2026	Taxiways	Drainage - Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	63.96444	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.001027	0.003151	2.847805	7.79E-06	0.00025	0.000242	0.000179
6	2026	Taxiways	Drainage - Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	63.96444	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000802	0.003454	13.3986	3.54E-05	0.000213	0.000206	0.000275
6	2026	Taxiways	Drainage - Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	63.96444	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.002941	0.00322	1.029308	3.01E-06	0.000403	0.000391	0.00043

6	2026	Taxiways	Dust Conti	Water Truck	Off-highway Trucks600	Diesel	600	0.59	1440	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.018064	0.077758	301.636	0.000797	0.004786	0.004643	0.006191
6	2026	Taxiways	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	35.40133	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000316	0.001013	2.162845	5.74E-06	7.57E-05	7.34E-05	4.95E-05
6	2026	Taxiways	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	35.40133	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000444	0.001912	7.415497	1.96E-05	0.000118	0.000114	0.000152
6	2026	Taxiways	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	35.40133	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000444	0.001912	7.415497	1.96E-05	0.000118	0.000114	0.000152
6	2026	Taxiways	Excavatior	Roller	Rollers100	Diesel	100	0.59	16.33908	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000274	0.001106	0.633436	1.7E-06	4.61E-05	4.47E-05	2.25E-05
6	2026	Taxiways	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	26.551	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000237	0.000759	1.622133	4.3E-06	5.67E-05	5.5E-05	3.71E-05
6	2026	Taxiways	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	70.80267	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000888	0.003823	14.83099	3.92E-05	0.000235	0.000228	0.000304
6	2026	Taxiways	Excavatior	Excavator	Excavators175	Diesel	175	0.59	21.2408	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000159	0.000525	1.297718	3.43E-06	3.72E-05	3.6E-05	2.54E-05
6	2026	Taxiways	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	21.2408	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000266	0.001147	4.449298	1.18E-05	7.06E-05	6.85E-05	9.13E-05
6	2026	Taxiways	Excavatior	Roller	Rollers100	Diesel	100	0.59	21.2408	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000356	0.001437	0.823467	2.21E-06	5.99E-05	5.81E-05	2.92E-05
6	2026	Taxiways	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	26.551	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.001653	0.004233	5.561157	1.52E-05	0.000306	0.000296	0.000274
6	2026	Taxiways	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	9.995765	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	8.91E-05	0.000286	0.610691	1.62E-06	2.14E-05	2.07E-05	1.4E-05
6	2026	Taxiways	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	39.86667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0005	0.002153	8.350848	2.21E-05	0.000133	0.000129	0.000171
6	2026	Taxiways	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	159.4667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.002	0.008611	33.40339	8.82E-05	0.00053	0.000514	0.000686
6	2026	Taxiways	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	159.4667	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.002561	0.007857	7.099726	1.94E-05	0.000623	0.000604	0.000446
6	2026	Taxiways	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	159.4667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.002	0.008611	33.40339	8.82E-05	0.00053	0.000514	0.000686
6	2026	Taxiways	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	159.4667	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.007596	0.010502	1.922705	5.9E-06	0.001012	0.000982	0.001434
6	2026	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	159.4667	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.007331	0.008028	2.566117	7.49E-06	0.001005	0.000974	0.001071
6	2026	Taxiways	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	10.3838	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	9.26E-05	0.000297	0.634398	1.68E-06	2.22E-05	2.15E-05	1.45E-05
6	2026	Taxiways	Grading	Grader	Graders300	Diesel	300	0.59	10.3838	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	7.71E-05	0.000315	1.087537	2.88E-06	2.01E-05	1.95E-05	2.5E-05
6	2026	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	10.3838	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000174	0.000703	0.402561	1.08E-06	2.93E-05	2.84E-05	1.43E-05
6	2026	Taxiways	Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	9.3548	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.001815	0.003988	1.958929	5.71E-06	0.000294	0.000285	0.000253
6	2026	Taxiways	Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	9.3548	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000117	0.000505	1.959545	5.18E-06	3.11E-05	3.02E-05	4.02E-05
6	2026	Taxiways	Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	48.05333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000603	0.002595	10.0657	2.66E-05	0.00016	0.000155	0.000207
6	2026	Taxiways	Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	48.05333	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.004448	0.007998	3.423435	9.99E-06	0.001031	0.001	0.001112
6	2026	Taxiways	Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	48.05333	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000772	0.002368	2.139416	5.85E-06	0.000188	0.000182	0.000134
6	2026	Taxiways	Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	48.05333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000603	0.002595	10.0657	2.66E-05	0.00016	0.000155	0.000207
6	2026	Taxiways	Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	48.05333	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.002289	0.003165	0.579384	1.78E-06	0.000305	0.000296	0.000432
6	2026	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	48.05333	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.002209	0.002419	0.773268	2.26E-06	0.000303	0.000294	0.000323
6	2026	Taxiways	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	131.2183	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001646	0.007086	27.48622	7.26E-05	0.000436	0.000423	0.000564
6	2026	Taxiways	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	131.2183	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.002108	0.006465	5.84206	1.6E-05	0.000513	0.000497	0.000367
6	2026	Taxiways	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	131.2183	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001646	0.007086	27.48622	7.26E-05	0.000436	0.000423	0.000564
6	2026	Taxiways	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	8.8	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000141	0.000434	0.391791	1.07E-06	3.44E-05	3.33E-05	2.46E-05
6	2026	Taxiways	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	17.6	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000221	0.00095	3.686662	9.74E-06	5.85E-05	5.67E-05	7.57E-05
6	2026	Taxiways	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	8.8	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000113	0.000192	0.027243	1E-07	1.1E-05	1.07E-05	3.84E-05
6	2026	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	8.8	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000405	0.000443	0.141608	4.14E-07	5.54E-05	5.38E-05	5.91E-05
6	2026	Taxiways	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	13.41537	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.00012	0.000384	0.819612	2.17E-06	2.87E-05	2.78E-05	1.87E-05
6	2026	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	94.40444	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001184	0.005098	19.77485	5.22E-05	0.000314	0.000304	0.000406
6	2026	Taxiways	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	13.41537	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000168	0.000724	2.81011	7.42E-06	4.46E-05	4.33E-05	5.77E-05
6	2026	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	13.07138	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000219	0.000884	0.506754	1.36E-06	3.68E-05	3.57E-05	1.8E-05
6	2026	Taxiways	Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	23.07467	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000206	0.00066	1.409747	3.74E-06	4.93E-05	4.78E-05	3.23E-05
6	2026	Taxiways	Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	23.07467	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000289	0.001246	4.833437	1.28E-05	7.67E-05	7.44E-05	9.92E-05
6	2026	Taxiways	Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	23.07467	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000289	0.001246	4.833437	1.28E-05	7.67E-05	7.44E-05	9.92E-05
7	2026	Demolitioi	Concrete I	Excavator with Bucket	Excavators175	Diesel	175	0.59	30.76267	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.00023	0.00076	1.879462	4.97E-06	5.38E-05	5.22E-05	3.67E-05
7	2026	Demolitioi	Concrete I	Excavator with Hoe Ram	Excavators175	Diesel	175	0.59	30.76267	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.00023	0.00076	1.879462	4.97E-06	5.38E-05	5.22E-05	3.67E-05
7	2026	Demolitioi	Concrete I	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	61.52533	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000772	0.003322	12.88768	3.4E-05	0.000204	0.000198	0.000265
1	2026	Apron (GA	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	2.672875	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	3E-05	8.64E-05	0.163297	4.36E-07	7.43E-06	7.2E-06	4.61E-06
1	2026	Apron (GA	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	9.626562	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000121	0.00052	2.01647	5.33E-06	3.2E-05	3.1E-05	4.14E-05
1	2026	Apron (GA	Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	5.34575	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	8.59E-05	0.000263	0.238002	6.51E-07	2.09E-05	2.03E-05	1.49E-05
1	2026	Apron (GA	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	2.672875	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	3.35E-05	0.000144	0.559886	1.48E-06	8.88E-06	8.62E-06	1.15E-05
1	2026	Apron (GA	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	2.672875	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	4.47E-05	0.000181	0.103623	2.78E-07	7.53E-06	7.31E-06	3.67E-06
1	2026	Apron (GA	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	2.672875	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000127	0.000176	0.032227	9.89E-08	1.7E-05	1.65E-05	2.4E-05
1	2026	Apron (GA	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	3.42128	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	8.3E-05	0.000209	0.033107	1.22E-07	9.51E-06	9.23E-06	1.96E-05
1	2026	Apron (GA	Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	6	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000126	0.000213	0.030238	1.11E-07	1.22E-05	1.19E-05	4.27E-05
1	2026	Apron (GA	Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	6	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000132	0.00036	0.169511	4.64E-07	1.99E-05	1.93E-05	1.19E-05
1	2026	Apron (GA	Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0001	0.000432	1.675755	4.43E-06	2.66E-05	2.58E-05	3.44E-05
1	2026	Apron (GA	Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	5.824	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	5.19E-05	0.000167	0.355817	9.44E-07	1.24E-05	1.21E-05	8.14E-06
1	2026	Apron (GA	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	5.824	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	7.31E-05	0.000314	1.21995	3.22E-06	1.94E-05	1.88E-05	2.5E-05
1	2026	Apron (GA	Drainage -	Excavator	Excavators175	Diesel	175	0.59	5.824	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	4.35E-05	0.000144	0.35582	9.41E-07	1.02E-05	9.88E-06	6.96E-06
1	2026	Apron (GA	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	5.824	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000539	0.000969	0.414916	1.21E-06	0.000125	0.000121	0.000135
1	2026	Apron (GA	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	5.824	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	9.35E-05	0.000287	0.259294	7.09E-07	2.28E-05	2.21E-05	1.63E-05
1	2026	Apron (GA	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	5.824	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	7.31E-05	0.000314	1.21995	3.22E-06	1.94E-05	1.88E-05	2.5E-05
1	2026	Apron (GA	Drainage -	Roller	Rollers100	Diesel	100	0.59	5.824	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	9.75E-05	0.000394	0.225786	6.06E-07	1.64E-05	1.59E-05	8.01E-06
1	2026	Apron (GA	Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	3.235556	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.06E-05	0.000175	0.67775	1.79E-06	1.08E-05	1.04E-05	1.39E-05
1	2026	Apron (GA	Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	3.235556	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.0003	0.000539	0.230509	6.73E-07	6.94E-05	6.73E-05	7.49E-05
1	2026	Apron (GA	Drainage -	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	3.235556	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	5.2E-05	0.000159	0.144052	3.94E-07	1.26E-05	1.23E-05	9.05E-06
1	2026	Apron (GA	Drainage -	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	3.235556	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.06E-05	0.000175	0.67775	1.79E-06	1.08E-05	1.04E-05	1.39E-05
1	2026	Apron (GA	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	3.235556	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000149	0.000163	0.052066	1.52E-07	2.04E-05	1.98E-05	2.17E-05
1	2026	Apron (GA	Dust Conti	Water Truck	Off-highway Trucks600	Diesel	600	0.59	1440	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.018064	0.077758	301.636	0.000797	0.004786	0.004643	0.006191
1	2026	Apron (GA	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	11.88	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000106	0.00034	0.725809	1.93E-06	2.54E-05	2.46E-05	1.66E-05
1	2026	Apron (GA	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	11.88	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000149	0.000642	2.488497	6.57E-06	3.95E-05	3.83E-05	5.11E-05
1	2026	Apron (GA	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	11.88	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000149	0.000642	2.488497	6.57E-06	3.95E-05	3.83E-05	5.11E-05
1	2026	Apron (GA	Excavatior	Roller	Rollers100	Diesel	100	0.59	5.483077	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	9.18E-05	0.000371	0.212569	5.71E-07	1.55E-05	1.5E-05	7.54E-06
1	2026	Apron (GA	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	8.91	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	7.94E-05	0.000255	0.544356	1.44E-06	1.9E-05	1.85E-05	1.25E-05
1	2026	Apron (GA	Excavatior	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	23.76	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000298	0.001283	4.976994	1.31E-05	7.9E-05	7.66E-05	0.000102
1	2026	Apron (GA	Excavatior	Excavator	Excavators175	Diesel	175	0.59	7.128	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	5.32E-05	0.000176	0.435489	1.15E-06	1.25E-05	1.21E-05	8.51E-06
1	2026	Apron (GA	Excavatior	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	7.128	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.94E-05	0.000385	1.493098	3.94E-06	2.37E-05	2.3E-05	3.06E-05
1	2026	Apron (GA	Excavatior	Roller	Rollers100	Diesel	100	0.59	7.128	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000119	0.000482	0.27634	7.42E-07	2.01E-05	1.95E-05	9.8E-06
1	2026	Apron (GA	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	8.91	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.000555	0.001421	1.866216	5.09E-06	0.000103	9.95E-05	9.18E-05
1	2026	Apron (GA	Excavatior	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	3.354196	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	2.99E-05	9.59E-05	0.204925	5.44E-07	7.17E-06	6.95E-06	4.69E-06
1	2026	Apron (GA	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	1.911111	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	2.4E-05	0.000103	0.400319	1.06E-06	6.35E-06	6.16E-06	8.22E-06
1	2026	Apron (GA	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	7.644444	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.59E-05	0.000413	1.601277	4.23E-06	2.54E-05	2.46E-05	3.29E-05
1	2026	Apron (GA	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	7.644444	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000123	0.000377	0.340344	9.31E-07	2.99E-05	2.9E-05	2.14E-05
1	2026	Apron (GA	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	7.644444	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	9.59E-05	0.000413	1.601277	4.23E-06	2.54E-05	2.46E-05	3.29E-05

1	2026	Apron (GA Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	7.644444	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000364	0.000503	0.09217	2.83E-07	4.85E-05	4.71E-05	6.87E-05
1	2026	Apron (GA Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	7.644444	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000351	0.000385	0.123013	3.59E-07	4.82E-05	4.67E-05	5.13E-05
1	2026	Apron (GA Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	2.4646	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	2.2E-05	7.05E-05	0.150575	4E-07	5.27E-06	5.11E-06	3.44E-06
1	2026	Apron (GA Grading	Grader	Graders300	Diesel	300	0.59	2.4646	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	1.83E-05	7.47E-05	0.258127	6.83E-07	4.77E-06	4.63E-06	5.92E-06
1	2026	Apron (GA Grading	Roller	Rollers100	Diesel	100	0.59	2.4646	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	4.13E-05	0.000167	0.095548	2.57E-07	6.95E-06	6.74E-06	3.39E-06
1	2026	Apron (GA Hydroseec	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	2.2204	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.000431	0.000946	0.46496	1.36E-06	6.98E-05	6.77E-05	5.99E-05
1	2026	Apron (GA Hydroseec	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	2.2204	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	2.79E-05	0.00012	0.465106	1.23E-06	7.38E-06	7.16E-06	9.55E-06
1	2026	Apron (GA Lighting	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	3.786667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.75E-05	0.000204	0.793191	2.1E-06	1.26E-05	1.22E-05	1.63E-05
1	2026	Apron (GA Lighting	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	3.786667	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000351	0.00063	0.269771	7.87E-07	8.12E-05	7.88E-05	8.76E-05
1	2026	Apron (GA Lighting	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	3.786667	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	6.08E-05	0.000187	0.168589	4.61E-07	1.48E-05	1.43E-05	1.06E-05
1	2026	Apron (GA Lighting	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	3.786667	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.75E-05	0.000204	0.793191	2.1E-06	1.26E-05	1.22E-05	1.63E-05
1	2026	Apron (GA Lighting	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	3.786667	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.00018	0.000249	0.045656	1.4E-07	2.4E-05	2.33E-05	3.41E-05
1	2026	Apron (GA Lighting	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	3.786667	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000174	0.000191	0.060935	1.78E-07	2.39E-05	2.31E-05	2.54E-05
1	2026	Apron (GA Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	44.032	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000552	0.002378	9.223358	2.44E-05	0.000146	0.000142	0.000189
1	2026	Apron (GA Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	44.032	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000707	0.002169	1.960379	5.36E-06	0.000172	0.000167	0.000123
1	2026	Apron (GA Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	44.032	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000552	0.002378	9.223358	2.44E-05	0.000146	0.000142	0.000189
1	2026	Apron (GA Sealing/Fu	Distributing Tanker	Off-highway Trucks600	Diesel	600	0.59	5.702133	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	7.15E-05	0.000308	1.194423	3.16E-06	1.9E-05	1.84E-05	2.45E-05
1	2026	Apron (GA Sealing/Fu	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	5.702133	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	9.16E-05	0.000281	0.253869	6.94E-07	2.23E-05	2.16E-05	1.59E-05
1	2026	Apron (GA Sealing/Fu	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	5.702133	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	7.15E-05	0.000308	1.194423	3.16E-06	1.9E-05	1.84E-05	2.45E-05
1	2026	Apron (GA Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	2	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	3.21E-05	9.85E-05	0.089043	2.44E-07	7.81E-06	7.58E-06	5.59E-06
1	2026	Apron (GA Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.02E-05	0.000216	0.837878	2.21E-06	1.33E-05	1.29E-05	1.72E-05
1	2026	Apron (GA Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	2	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	2.57E-05	4.36E-05	0.006192	2.28E-08	2.5E-06	2.43E-06	8.74E-06
1	2026	Apron (GA Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	2	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	9.19E-05	0.000101	0.032184	9.4E-08	1.26E-05	1.22E-05	1.34E-05
1	2026	Apron (GA Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	4.501684	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	4.01E-05	0.000129	0.27503	7.3E-07	9.62E-06	9.33E-06	6.29E-06
1	2026	Apron (GA Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	31.68	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000397	0.001711	6.635991	1.75E-05	0.000105	0.000102	0.000136
1	2026	Apron (GA Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	4.501684	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.65E-05	0.000243	0.942965	2.49E-06	1.5E-05	1.45E-05	1.94E-05
1	2026	Apron (GA Subbase P	Roller	Rollers100	Diesel	100	0.59	4.386462	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	7.34E-05	0.000297	0.170055	4.57E-07	1.24E-05	1.2E-05	6.03E-06
1	2026	Apron (GA Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	5.477333	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	4.88E-05	0.000157	0.334638	8.88E-07	1.17E-05	1.14E-05	7.66E-06
1	2026	Apron (GA Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	5.477333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	6.87E-05	0.000296	1.147334	3.03E-06	1.82E-05	1.77E-05	2.36E-05
1	2026	Apron (GA Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	5.477333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	6.87E-05	0.000296	1.147334	3.03E-06	1.82E-05	1.77E-05	2.36E-05
2	2026	Building - Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.014712	0.016109	5.149399	1.5E-05	0.002016	0.001955	0.002149
2	2026	Building - Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
2	2026	Building - Concrete F	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	320	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.009668	0.02636	12.40456	3.39E-05	0.001459	0.001416	0.000874
2	2026	Building - Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001004	0.00432	16.75755	4.43E-05	0.000266	0.000258	0.000344
2	2026	Building - Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
2	2026	Building - Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000125	0.00054	2.094694	5.53E-06	3.32E-05	3.22E-05	4.3E-05
2	2026	Building - Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.02E-05	0.000216	0.837878	2.21E-06	1.33E-05	1.29E-05	1.72E-05
2	2026	Building - Exterior W	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	240	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.007251	0.01977	9.303418	2.55E-05	0.001095	0.001062	0.000655
2	2026	Building - Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	240	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.001669	0.011059	2.483096	6.77E-06	0.000178	0.000172	0.000312
2	2026	Building - Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
2	2026	Building - Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000301	0.001296	5.027266	1.33E-05	7.98E-05	7.74E-05	0.000103
2	2026	Building - Interior Bu	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	960	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.029003	0.07908	37.21367	0.000102	0.004378	0.004247	0.002622
2	2026	Building - Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	960	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.006678	0.044236	9.932385	2.71E-05	0.000711	0.000689	0.001248
2	2026	Building - Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001505	0.00648	25.13633	6.64E-05	0.000399	0.000387	0.000516
2	2026	Building - Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001505	0.00648	25.13633	6.64E-05	0.000399	0.000387	0.000516
2	2026	Building - Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	120	3.66E-01	1.15E+00	5.96E+02	1.62E-03	5.63E-02	5.46E-02	3.26E-02	0.002857	0.008945	4.651924	1.26E-05	0.00044	0.000426	0.000254
2	2026	Building - Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts75	Diesel	75	0.21	120	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.000835	0.005529	1.241548	3.38E-06	8.88E-05	8.61E-05	0.000156
2	2026	Building - Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0001	0.000432	1.675755	4.43E-06	2.66E-05	2.58E-05	3.44E-05
2	2026	Building - Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000151	0.000648	2.513633	6.64E-06	3.99E-05	3.87E-05	5.16E-05
2	2026	Building - Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	320	3.66E-01	1.15E+00	5.96E+02	1.62E-03	5.63E-02	5.46E-02	3.26E-02	0.007618	0.023854	12.40513	3.36E-05	0.001172	0.001137	0.000677
2	2026	Building - Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001004	0.00432	16.75755	4.43E-05	0.000266	0.000258	0.000344
2	2026	Building - Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	6.78E-02	2.77E-01	5.31E+02	1.43E-03	1.52E-02	1.48E-02	2.06E-02	0.002315	0.009465	18.12123	4.87E-05	0.00052	0.000504	0.000702
2	2026	Building - Structural	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	120	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.003625	0.009885	4.651709	1.27E-05	0.000547	0.000531	0.000328
2	2026	Building - Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
2	2026	Building - Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
3	2026	Demolitio Asphalt De	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	30.24	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.00027	0.000865	1.847513	4.9E-06	6.46E-05	6.27E-05	4.23E-05
3	2026	Demolitio Asphalt De	Excavator	Excavators175	Diesel	175	0.59	30.24	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000226	0.000747	1.847529	4.89E-06	5.29E-05	5.13E-05	3.61E-05
3	2026	Demolitio Asphalt De	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	60.48	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000759	0.003266	12.66871	3.35E-05	0.000201	0.000195	0.00026
4	2026	Access Ro Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	3.996	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	4.49E-05	0.000129	0.244132	6.51E-07	1.11E-05	1.08E-05	6.9E-06
4	2026	Access Ro Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	14.3919	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000181	0.000777	3.014662	7.96E-06	4.78E-05	4.64E-05	6.19E-05
4	2026	Access Ro Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	7.992	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000128	0.000394	0.355817	9.73E-07	3.12E-05	3.03E-05	2.23E-05
4	2026	Access Ro Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	3.996	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.01E-05	0.000216	0.83704	2.21E-06	1.33E-05	1.29E-05	1.72E-05
4	2026	Access Ro Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	3.996	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	6.69E-05	0.00027	0.154918	4.16E-07	1.13E-05	1.09E-05	5.49E-06
4	2026	Access Ro Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	3.996	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.00019	0.000263	0.04818	1.48E-07	2.54E-05	2.46E-05	3.59E-05
4	2026	Access Ro Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	5.11488	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000124	0.000313	0.049495	1.82E-07	1.42E-05	1.38E-05	2.93E-05
4	2026	Access Ro Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	9.6	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000201	0.000341	0.048381	1.78E-07	1.95E-05	1.9E-05	6.83E-05
4	2026	Access Ro Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	9.6	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000211	0.000576	0.271218	7.42E-07	3.19E-05	3.1E-05	1.91E-05
4	2026	Access Ro Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	12.8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000161	0.000691	2.681209	7.08E-06	4.25E-05	4.13E-05	5.5E-05
4	2026	Access Ro Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	10.656	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000235	0.00064	0.301052	8.24E-07	3.54E-05	3.44E-05	2.12E-05
4	2026	Access Ro Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	10.656	2.90E-01	2.54E+00	5.96E+02	1.57E-03	2.31E-02	2.24E-02	9.35E-02	8.04E-05	0.000704	0.165185	4.36E-07	6.4E-06	6.21E-06	2.59E-05
4	2026	Access Ro Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	44.4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000557	0.002398	9.300443	2.46E-05	0.000148	0.000143	0.000191
4	2026	Access Ro Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	21.312	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000342	0.00105	0.948846	2.6E-06	8.33E-05	8.08E-05	5.96E-05
4	2026	Access Ro Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	31.968	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000401	0.001726	6.696319	1.77E-05	0.000106	0.000103	0.000137
4	2026	Access Ro Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	10.656	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000986	0.001774	0.759159	2.22E-06	0.000229	0.000222	0.000247
4	2026	Access Ro Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	10.656	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.00012	0.000345	0.651019	1.74E-06	2.96E-05	2.87E-05	1.84E-05
4	2026	Access Ro Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	10.656	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000258	0.000652	0.103115	3.79E-07	2.96E-05	2.87E-05	6.1E-05
4	2026	Access Ro Curbing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	28.8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000361	0.001555	6.03272	1.59E-05	9.57E-05	9.29E-05	0.000124
4	2026	Access Ro Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	28.8	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000324	0.000931	1.75951	4.69E-06	8E-05	7.76E-05	4.97E-05
4	2026	Access Ro Curbing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	28.8	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000463	0.001419	1.282225	3.51E-06	0.000113	0.000109	8.05E-05
4	2026	Access Ro Curbing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	28.8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000361	0.001555	6.03272	1.59E-05	9.57E-05	9.29E-05	0.000124
4	2026	Access Ro Drainage -	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	23.36	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000208	0.000668	1.427179	3.79E-06	4.99E-05	4.84E-05	3.26E-05
4	2026	Access Ro Drainage -	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	23.36	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000293	0.001261	4.893206	1.29E-05	7.76E-05	7.53E-05	0.0001
4	2026	Access Ro Drainage -	Excavator	Excavators175	Diesel	175	0.59	23.36	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000174	0.000577	1.427192	3.77E-06	4.09E-05	3.96E-05	2.79E-05
4	2026	Access Ro Drainage -	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	23.36	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.002162	0.003888	1.664222	4.86E-06	0.000501	0.000486	0.00054

4	2026	Access Ro	Drainage - Other General Equipment		Other Construction Equipment175	Diesel	175	0.43	23.36	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000375	0.001151	1.040027	2.85E-06	9.13E-05	8.85E-05	6.53E-05
4	2026	Access Ro	Drainage - Pickup Truck		Off-highway Trucks600	Diesel	600	0.59	23.36	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000293	0.001261	4.893206	1.29E-05	7.76E-05	7.53E-05	0.0001
4	2026	Access Ro	Drainage - Roller		Rollers100	Diesel	100	0.59	23.36	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000391	0.001581	0.905625	2.43E-06	6.58E-05	6.39E-05	3.21E-05
4	2026	Access Ro	Drainage - Dump Truck		Off-highway Trucks600	Diesel	600	0.59	12.97778	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000163	0.000701	2.718448	7.18E-06	4.31E-05	4.18E-05	5.58E-05
4	2026	Access Ro	Drainage - Loader		Tractors/Loaders/Backhoes175	Diesel	175	0.59	12.97778	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.001201	0.00216	0.924568	2.7E-06	0.000278	0.00027	0.0003
4	2026	Access Ro	Drainage - Other General Equipment		Other Construction Equipment175	Diesel	175	0.43	12.97778	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000208	0.000639	0.577793	1.58E-06	5.07E-05	4.92E-05	3.63E-05
4	2026	Access Ro	Drainage - Pickup Truck		Off-highway Trucks600	Diesel	600	0.59	12.97778	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000163	0.000701	2.718448	7.18E-06	4.31E-05	4.18E-05	5.58E-05
4	2026	Access Ro	Drainage - Tractors/Loader/Backhoe		Tractors/Loaders/Backhoes100	Diesel	100	0.21	12.97778	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000597	0.000653	0.208837	6.1E-07	8.18E-05	7.93E-05	8.72E-05
4	2026	Access Ro	Dust Cont	Water Truck	Off-highway Trucks600	Diesel	600	0.59	2880	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.036128	0.155515	603.272	0.001594	0.009573	0.009285	0.012383
4	2026	Access Ro	Excavatio	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	17.76	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000158	0.000508	1.085047	2.88E-06	3.8E-05	3.68E-05	2.48E-05
4	2026	Access Ro	Excavatio	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	17.76	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000223	0.000959	3.720177	9.83E-06	5.9E-05	5.73E-05	7.64E-05
4	2026	Access Ro	Excavatio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	17.76	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000223	0.000959	3.720177	9.83E-06	5.9E-05	5.73E-05	7.64E-05
4	2026	Access Ro	Excavatio	Roller	Rollers100	Diesel	100	0.59	8.196923	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000137	0.000555	0.31778	8.53E-07	2.31E-05	2.24E-05	1.13E-05
4	2026	Access Ro	Excavatio	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	13.32	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000119	0.000381	0.813785	2.16E-06	2.85E-05	2.76E-05	1.86E-05
4	2026	Access Ro	Excavatio	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	35.52	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000446	0.001918	7.440354	1.97E-05	0.000118	0.000115	0.000153
4	2026	Access Ro	Excavatio	Excavator	Excavators175	Diesel	175	0.59	10.656	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	7.95E-05	0.000263	0.651034	1.72E-06	1.86E-05	1.81E-05	1.27E-05
4	2026	Access Ro	Excavatio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	10.656	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000134	0.000575	2.232106	5.9E-06	3.54E-05	3.44E-05	4.58E-05
4	2026	Access Ro	Excavatio	Roller	Rollers100	Diesel	100	0.59	10.656	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000178	0.000721	0.413114	1.11E-06	3E-05	2.91E-05	1.46E-05
4	2026	Access Ro	Excavatio	Scraper	Scrapers600	Diesel	600	0.59	13.32	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.000829	0.002124	2.789899	7.61E-06	0.000153	0.000149	0.000137
4	2026	Access Ro	Excavatio	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	5.014588	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	4.47E-05	0.000143	0.306366	8.13E-07	1.07E-05	1.04E-05	7.01E-06
4	2026	Access Ro	Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0001	0.000432	1.675755	4.43E-06	2.66E-05	2.58E-05	3.44E-05
4	2026	Access Ro	Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	32	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000401	0.001728	6.703022	1.77E-05	0.000106	0.000103	0.000138
4	2026	Access Ro	Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	32	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000514	0.001577	1.424694	3.9E-06	0.000125	0.000121	8.95E-05
4	2026	Access Ro	Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	32	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000401	0.001728	6.703022	1.77E-05	0.000106	0.000103	0.000138
4	2026	Access Ro	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	32	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.001524	0.002108	0.385827	1.18E-06	0.000203	0.000197	0.000288
4	2026	Access Ro	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	32	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.001471	0.001611	0.51494	1.5E-06	0.000202	0.000196	0.000215
4	2026	Access Ro	Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	4.0515	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	3.61E-05	0.000116	0.247526	6.57E-07	8.66E-06	8.4E-06	5.66E-06
4	2026	Access Ro	Grading	Grader	Graders300	Diesel	300	0.59	4.0515	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	3.01E-05	0.000123	0.42433	1.12E-06	7.84E-06	7.61E-06	9.74E-06
4	2026	Access Ro	Grading	Roller	Rollers100	Diesel	100	0.59	4.0515	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	6.78E-05	0.000274	0.157069	4.22E-07	1.14E-05	1.11E-05	5.57E-06
4	2026	Access Ro	Hydrosee	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	3.65	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.000708	0.001556	0.764323	2.23E-06	0.000115	0.000111	9.85E-05
4	2026	Access Ro	Hydrosee	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	3.65	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	4.58E-05	0.000197	0.764563	2.02E-06	1.21E-05	1.18E-05	1.57E-05
4	2026	Access Ro	Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	65.82857	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000826	0.003555	13.78907	3.64E-05	0.000219	0.000212	0.000283
4	2026	Access Ro	Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	65.82857	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.001057	0.003243	2.930799	8.02E-06	0.000257	0.000249	0.000184
4	2026	Access Ro	Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	65.82857	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000826	0.003555	13.78907	3.64E-05	0.000219	0.000212	0.000283
4	2026	Access Ro	Sidewalks	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	57.6	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000723	0.00311	12.06544	3.19E-05	0.000191	0.000186	0.000248
4	2026	Access Ro	Sidewalks	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	57.6	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000723	0.00311	12.06544	3.19E-05	0.000191	0.000186	0.000248
4	2026	Access Ro	Sidewalks	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	57.6	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000723	0.00311	12.06544	3.19E-05	0.000191	0.000186	0.000248
4	2026	Access Ro	Sidewalks	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	57.6	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.002648	0.0029	0.926892	2.71E-06	0.000363	0.000352	0.000387
4	2026	Access Ro	Sidewalks	Vibratory Compactor	Plate Compactors6	Diesel	6	0.43	57.6	2.51E+00	4.19E+00	5.88E+02	2.16E-03	2.51E-01	2.44E-01	8.27E-01	0.000412	0.000686	0.096322	3.54E-07	4.12E-05	3.99E-05	0.000136
4	2026	Access Ro	Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	3.2	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	5.14E-05	0.000158	0.142469	3.9E-07	1.25E-05	1.21E-05	8.95E-06
4	2026	Access Ro	Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.03E-05	0.000346	1.340604	3.54E-06	2.13E-05	2.06E-05	2.75E-05
4	2026	Access Ro	Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	3.2	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	4.11E-05	6.98E-05	0.009907	3.64E-08	4E-06	3.88E-06	1.4E-05
4	2026	Access Ro	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	3.2	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000147	0.000161	0.051494	1.5E-07	2.02E-05	1.96E-05	2.15E-05
4	2026	Access Ro	Street Ligh	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	19.2	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000241	0.001037	4.021813	1.06E-05	6.38E-05	6.19E-05	8.26E-05
4	2026	Access Ro	Street Ligh	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	19.2	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.001777	0.003196	1.367854	3.99E-06	0.000412	0.0004	0.000444
4	2026	Access Ro	Street Ligh	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	19.2	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000308	0.000946	0.854817	2.34E-06	7.5E-05	7.28E-05	5.37E-05
4	2026	Access Ro	Street Ligh	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	19.2	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000241	0.001037	4.021813	1.06E-05	6.38E-05	6.19E-05	8.26E-05
4	2026	Access Ro	Street Ligh	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	19.2	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000915	0.001265	0.231496	7.1E-07	0.000122	0.000118	0.000173
4	2026	Access Ro	Street Ligh	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	19.2	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000883	0.000967	0.308964	9.02E-07	0.000121	0.000117	0.000129
4	2026	Access Ro	Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	6.730105	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	6E-05	0.000193	0.411176	1.09E-06	1.44E-05	1.4E-05	9.41E-06
4	2026	Access Ro	Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	47.36	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000594	0.002557	9.920472	2.62E-05	0.000157	0.000153	0.000204
4	2026	Access Ro	Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	6.730105	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	8.44E-05	0.000363	1.409751	3.72E-06	2.24E-05	2.17E-05	2.89E-05
4	2026	Access Ro	Subbase P	Roller	Rollers100	Diesel	100	0.59	6.557538	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.00011	0.000444	0.254224	6.83E-07	1.85E-05	1.79E-05	9.01E-06
4	2026	Access Ro	Topsoil Pl	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	9.004	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	8.03E-05	0.000258	0.550099	1.46E-06	1.92E-05	1.87E-05	1.26E-05
4	2026	Access Ro	Topsoil Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	9.004	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000113	0.000486	1.886063	4.98E-06	2.99E-05	2.9E-05	3.87E-05
4	2026	Access Ro	Topsoil Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	9.004	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000113	0.000486	1.886063	4.98E-06	2.99E-05	2.9E-05	3.87E-05
4	2026	Access Ro	Tree Plant	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	0	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0	0	0	0	0	0	0
4	2026	Access Ro	Tree Plant	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	0	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0	0	0	0	0	0	0
4	2026	Access Ro	Tree Plant	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	0	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0	0	0	0	0	0	0
4	2026	Access Ro	Tree Plant	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	0	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0	0	0	0	0	0	0
5	2026	Open Park	Binder Co	Paving Machine	Pavers175	Diesel	175	0.59	16	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.00018	0.000517	0.977505	2.61E-06	4.44E-05	4.31E-05	2.76E-05
5	2026	Open Park	Binder Co	Ten Wheelers- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
5	2026	Open Park	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.02E-05	0.000216	0.837878	2.21E-06	1.33E-05	1.29E-05	1.72E-05
5	2026	Open Park	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.02E-05	0.000216	0.837878	2.21E-06	1.33E-05	1.29E-05	1.72E-05
5	2026	Open Park	Curbing	Bob Cat	Tractors/Loaders/Backhoes75	Diesel	75	0.21	24	1.78E+00	3.29E+00	6.95E+02	2.06E-03	2.26E-01	2.19E-01	3.18E-01	0.000743	0.00137	0.289617	8.57E-07	9.41E-05	9.12E-05	0.000132
5	2026	Open Park	Curbing	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	24	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000301	0.001296	5.027266	1.33E-05	7.98E-05	7.74E-05	0.000103
5	2026	Open Park	Curbing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	24	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000301	0.001296	5.027266	1.33E-05	7.98E-05	7.74E-05	0.000103
5	2026	Open Park	Curbing	Tractor Trailer with Boom Hoist- Delivery	Off-highway Trucks600	Diesel	600	0.59	24	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000301	0.001296	5.027266	1.33E-05	7.98E-05	7.74E-05	0.000103
5	2026	Open Park	Grub the s	Bulldozer	Crawler Tractor/Dozers175	Diesel	175	0.59	16	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000143	0.000458	0.97752	2.59E-06	3.42E-05	3.32E-05	2.24E-05
5	2026	Open Park	Grub the s	Front Loader	Tractors/Loaders/Backhoes100	Diesel	100	0.21	16	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000736	0.000805	0.25747	7.52E-07	0.000101	9.78E-05	0.000107
5	2026	Open Park	Grub the s	Ten Wheelers	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
5	2026	Open Park	Lighting P	Auger Drill	Other Construction Equipment175	Diesel	175	0.43	24	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000385	0.001182	1.068521	2.92E-06	9.38E-05	9.09E-05	6.71E-05
5	2026	Open Park	Lighting P	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	24	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000725	0.001977	0.930342	2.55E-06	0.000109	0.000106	6.55E-05
5	2026	Open Park	Lighting P	Front Loader	Tractors/Loaders/Backhoes100	Diesel	100	0.21	24	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.001103	0.001208	0.386205	1.13E-06	0.000151	0.000147	0.000161
5	2026	Open Park	Lighting P	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000151	0.000648	2.513633	6.64E-06	3.99E-05	3.87E-05	5.16E-05
5	2026	Open Park	Remove T	Bulldozer	Crawler Tractor/Dozers175	Diesel	175	0.59	40	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000357	0.001144	2.4438	6.48E-06	8.55E-05	8.29E-05	5.59E-05
5	2026	Open Park	Remove T	Chain Saws	Other Construction Equipment11	Diesel	11	0.7	24	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000502	0.000852	0.120953	4.45E-07	4.89E-05	4.74E-05	0.000171
5	2026	Open Park	Remove T	Flat Bed or Dump Trucks	Off-highway Trucks600	Diesel	600	0.59	40	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000502	0.00216	8.378777	2.21E-05	0.000133	0.000129	0.000172
5	2026	Open Park	Remove T	Log Chipper	Other Construction Equipment100	Diesel	100	0.43	24	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000528	0.001441	0.678046	1.86E-06	7.98E-05	7.74E-05	4.78E-05
5	2026	Open Park	Remove T	Mulcher	Other Construction Equipment100	Diesel	100	0.43	24	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000528	0.001441	0.678046	1.86E-06	7.98E-05	7.74E-05	4.78E-05
5	2026	Open Park	Remove T	Tractor	Tractors/Loaders/Backhoes100	Diesel	100	0.21	40	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.001839	0.002014	0.643675	1.88E-06	0.000252	0.000244	0.000269
5	2026	Open Park	Rough Gra	Compacting Equipment	Plate Compactors6	Diesel	6	0.43	16	2.51E+00	4.19E+00	5.88E+02	2.16E-03	2.51E-01	2.44E-01	8.27E-01	0.000114	0.000191	0.026756	9.84E-08	1.14E-05	1.11E-05	3.76E-05
5	2026	Open Park	Rough Gra	Small Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	16	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000143	0.000458	0.97752	2.59E-06	3.42E-05	3.32E-05	2.24E-05
5	2026	Open Park	Set in-plac	40 Ton Rough Terrain Crane	Cranes300	Diesel	300	0.43	16	6.78E-02	2.77E-01	5.31E+02	1.43E-03	1.52E-02	1.48E-02	2.06E-02	0.000154	0.000631	1.208082	3.25E-06	3.46E-05	3.36E-05	4.68E-05

5	2026	Open Park Set in-plac	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	16	3.66E-01	1.15E+00	5.96E+02	1.62E-03	5.63E-02	5.46E-02	3.26E-02	0.000381	0.001193	0.620256	1.68E-06	5.86E-05	5.69E-05	3.39E-05
5	2026	Open Park Set in-plac	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
5	2026	Open Park Stripping	Line Painting Truck and Sprayer	Off-highway Trucks600	Diesel	600	0.59	8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0001	0.000432	1.675755	4.43E-06	2.66E-05	2.58E-05	3.44E-05
5	2026	Open Park Subgrade	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	16	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000736	0.000805	0.25747	7.52E-07	0.000101	9.78E-05	0.000107
5	2026	Open Park Subgrade	Roller	Rollers100	Diesel	100	0.59	16	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000268	0.001083	0.620291	1.67E-06	4.51E-05	4.37E-05	2.2E-05
5	2026	Open Park Subgrade	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
5	2026	Open Park Top Coat c	Paving Machine	Pavers175	Diesel	175	0.59	16	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.00018	0.000517	0.977505	2.61E-06	4.44E-05	4.31E-05	2.76E-05
5	2026	Open Park Top Coat c	Ten Wheelers- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
5	2026	Open Park Undergrou	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	24	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.001103	0.001208	0.386205	1.13E-06	0.000151	0.000147	0.000161
5	2026	Open Park Undergrou	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	24	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.000725	0.001977	0.930342	2.55E-06	0.000109	0.000106	6.55E-05
5	2026	Open Park Undergrou	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000151	0.000648	2.513633	6.64E-06	3.99E-05	3.87E-05	5.16E-05
6	2026	Fuel Tanks Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	21.85313	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000246	0.000707	1.335097	3.56E-06	6.07E-05	5.89E-05	3.77E-05
6	2026	Fuel Tanks Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	78.70568	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000987	0.00425	16.48643	4.36E-05	0.000262	0.000254	0.000338
6	2026	Fuel Tanks Asphalt Pl	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	43.70625	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000702	0.002153	1.945876	5.32E-06	0.000171	0.000166	0.000122
6	2026	Fuel Tanks Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	21.85313	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000274	0.00118	4.577562	1.21E-05	7.26E-05	7.05E-05	9.4E-05
6	2026	Fuel Tanks Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	21.85313	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000366	0.001479	0.847206	2.27E-06	6.16E-05	5.97E-05	3E-05
6	2026	Fuel Tanks Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	21.85313	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.001041	0.001439	0.263485	8.08E-07	0.000139	0.000135	0.000197
6	2026	Fuel Tanks Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	27.972	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.000678	0.001711	0.270676	9.95E-07	7.78E-05	7.54E-05	0.00016
6	2026	Fuel Tanks Clearing a	Chain Saw	Other Construction Equipment11	Diesel	11	0.7	48	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.001005	0.001704	0.241906	8.89E-07	9.77E-05	9.48E-05	0.000341
6	2026	Fuel Tanks Clearing a	Chipper/Stump Grinder	Other Construction Equipment100	Diesel	100	0.43	48	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.001057	0.002882	1.356091	3.71E-06	0.00016	0.000155	9.55E-05
6	2026	Fuel Tanks Clearing a	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	64	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000803	0.003456	13.40604	3.54E-05	0.000213	0.000206	0.000275
6	2026	Fuel Tanks Concrete F	Air Compressor	Other Construction Equipment100	Diesel	100	0.43	58.2752	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.001283	0.003499	1.646385	4.51E-06	0.000194	0.000188	0.000116
6	2026	Fuel Tanks Concrete F	Concrete Saws	Other Construction Equipment40	Diesel	40	0.59	58.2752	2.90E-01	2.54E+00	5.96E+02	1.57E-03	2.31E-02	2.24E-02	9.35E-02	0.00044	0.003848	0.903357	2.38E-06	3.5E-05	3.4E-05	0.000142
6	2026	Fuel Tanks Concrete F	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	242.8133	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.003046	0.013112	50.86197	0.000134	0.000807	0.000783	0.001044
6	2026	Fuel Tanks Concrete F	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	116.5504	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.001872	0.005742	5.189021	1.42E-05	0.000455	0.000442	0.000326
6	2026	Fuel Tanks Concrete F	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	174.8256	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.002193	0.00944	36.62062	9.67E-05	0.000581	0.000564	0.000752
6	2026	Fuel Tanks Concrete F	Rubber Tired Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	58.2752	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.005394	0.0097	4.151665	1.21E-05	0.00125	0.001213	0.001348
6	2026	Fuel Tanks Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	58.2752	9.87E-02	2.84E-01	5.37E+02	1.43E-03	2.44E-02	2.37E-02	1.52E-02	0.000655	0.001884	3.56027	9.5E-06	0.000162	0.000157	0.000101
6	2026	Fuel Tanks Concrete F	Surfacing Equipment (Grooving)	Other Construction Equipment25	Diesel	25	0.59	58.2752	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.71E-01	1.66E-01	3.52E-01	0.001413	0.003566	0.56391	2.07E-06	0.000162	0.000157	0.000333
6	2026	Fuel Tanks Constructi	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	32	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000514	0.001577	1.424694	3.9E-06	0.000125	0.000121	8.95E-05
6	2026	Fuel Tanks Constructi	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	32	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000401	0.001728	6.703022	1.77E-05	0.000106	0.000103	0.000138
6	2026	Fuel Tanks Drainage -	Excavator	Excavators175	Diesel	175	0.59	50.72	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.000379	0.001253	3.098766	8.2E-06	8.87E-05	8.61E-05	6.06E-05
6	2026	Fuel Tanks Drainage	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	50.72	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000452	0.001451	3.098739	8.22E-06	0.000108	0.000105	7.09E-05
6	2026	Fuel Tanks Drainage	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	50.72	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000636	0.002739	10.62429	2.81E-05	0.000169	0.000164	0.000218
6	2026	Fuel Tanks Drainage	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	50.72	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.004695	0.008442	3.613414	1.05E-05	0.001088	0.001056	0.001173
6	2026	Fuel Tanks Drainage	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	50.72	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000815	0.002499	2.25814	6.18E-06	0.000198	0.000192	0.000142
6	2026	Fuel Tanks Drainage	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	50.72	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000636	0.002739	10.62429	2.81E-05	0.000169	0.000164	0.000218
6	2026	Fuel Tanks Drainage	Roller	Rollers100	Diesel	100	0.59	50.72	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000849	0.003432	1.966322	5.28E-06	0.000143	0.000139	6.97E-05
6	2026	Fuel Tanks Dust Contr	Water Truck	Off-highway Trucks600	Diesel	600	0.59	720	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.009032	0.038879	150.818	0.000398	0.002393	0.002321	0.003096
6	2026	Fuel Tanks Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	777	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.006928	0.022225	47.47082	0.000126	0.00166	0.001611	0.001086
6	2026	Fuel Tanks Excavation	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	777	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.009747	0.041957	162.7577	0.00043	0.002583	0.002505	0.003341
6	2026	Fuel Tanks Excavation	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	777	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.009747	0.041957	162.7577	0.00043	0.002583	0.002505	0.003341
6	2026	Fuel Tanks Excavation	Roller	Rollers100	Diesel	100	0.59	358.6154	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.006003	0.024264	13.90287	3.73E-05	0.001011	0.00098	0.000493
6	2026	Fuel Tanks Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	582.75	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.005196	0.016669	35.60311	9.45E-05	0.001245	0.001208	0.000814
6	2026	Fuel Tanks Excavation	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	1554	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.019494	0.083914	325.5155	0.00086	0.005165	0.00501	0.006682
6	2026	Fuel Tanks Excavation	Excavator	Excavators175	Diesel	175	0.59	466.2	6.56E-02	2.17E-01	5.37E+02	1.42E-03	1.54E-02	1.49E-02	1.05E-02	0.00348	0.011517	28.48274	7.53E-05	0.000815	0.000791	0.000557
6	2026	Fuel Tanks Excavation	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	466.2	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.005848	0.025174	97.65465	0.000258	0.00155	0.001503	0.002004
6	2026	Fuel Tanks Excavation	Roller	Rollers100	Diesel	100	0.59	466.2	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.007804	0.031544	18.07373	4.85E-05	0.001314	0.001275	0.000641
6	2026	Fuel Tanks Excavation	Scraper	Scrapers600	Diesel	600	0.59	582.75	1.60E-01	4.09E-01	5.37E+02	1.46E-03	2.95E-02	2.86E-02	2.64E-02	0.036284	0.092909	122.0581	0.000333	0.006706	0.006505	0.006003
6	2026	Fuel Tanks Excavation	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	27.42353	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000245	0.000784	1.675441	4.45E-06	5.86E-05	5.68E-05	3.83E-05
6	2026	Fuel Tanks Fencing	Concrete Truck	Off-highway Trucks600	Diesel	600	0.59	17.5	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00022	0.000945	3.665715	9.68E-06	5.82E-05	5.64E-05	7.52E-05
6	2026	Fuel Tanks Fencing	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	70	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000878	0.00378	14.66286	3.87E-05	0.000233	0.000226	0.000301
6	2026	Fuel Tanks Fencing	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	70	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.001124	0.003449	3.116519	8.53E-06	0.000273	0.000265	0.000196
6	2026	Fuel Tanks Fencing	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	70	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000878	0.00378	14.66286	3.87E-05	0.000233	0.000226	0.000301
6	2026	Fuel Tanks Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	70	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.003334	0.00461	0.843997	2.59E-06	0.000444	0.000431	0.00063
6	2026	Fuel Tanks Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	70	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.003218	0.003524	1.126431	3.29E-06	0.000441	0.000428	0.00047
6	2026	Fuel Tanks Grading	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	19.3529	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000173	0.000554	1.182365	3.14E-06	4.14E-05	4.01E-05	2.7E-05
6	2026	Fuel Tanks Grading	Grader	Graders300	Diesel	300	0.59	19.3529	3.81E-02	1.55E-01	5.37E+02	1.42E-03	9.92E-03	9.62E-03	1.23E-02	0.000144	0.000587	2.026907	5.37E-06	3.75E-05	3.63E-05	4.65E-05
6	2026	Fuel Tanks Grading	Roller	Rollers100	Diesel	100	0.59	19.3529	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.000324	0.001309	0.750277	2.01E-06	5.45E-05	5.29E-05	2.66E-05
6	2026	Fuel Tanks Hydroseed	Hydroseeder	Other Construction Equipment600	Diesel	600	0.59	17.435	4.97E-01	1.09E+00	5.37E+02	1.57E-03	8.05E-02	7.81E-02	6.92E-02	0.003382	0.007432	3.650952	1.07E-05	0.000548	0.000531	0.000471
6	2026	Fuel Tanks Hydroseed	Off-Road Truck	Off-highway Trucks600	Diesel	600	0.59	17.435	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000219	0.000941	3.652099	9.65E-06	5.8E-05	5.62E-05	7.5E-05
6	2026	Fuel Tanks Markings	Flatbed Truck	Off-highway Trucks600	Diesel	600	0.59	360	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.004516	0.019439	75.40899	0.000199	0.001197	0.001161	0.001548
6	2026	Fuel Tanks Markings	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	360	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.005782	0.017737	16.02781	4.38E-05	0.001406	0.001364	0.001007
6	2026	Fuel Tanks Markings	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	360	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.004516	0.019439	75.40899	0.000199	0.001197	0.001161	0.001548
6	2026	Fuel Tanks Soil Erosio	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	16	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000257	0.000788	0.712347	1.95E-06	6.25E-05	6.06E-05	4.47E-05
6	2026	Fuel Tanks Soil Erosio	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	32	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000401	0.001728	6.703022	1.77E-05	0.000106	0.000103	0.000138
6	2026	Fuel Tanks Soil Erosio	Pumps	Other Construction Equipment11	Diesel	11	0.43	16	2.47E+00	4.18E+00	5.94E+02	2.18E-03	2.40E-01	2.33E-01	8.38E-01	0.000206	0.000349	0.049533	1.82E-07	2E-05	1.94E-05	6.99E-05
6	2026	Fuel Tanks Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	16	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000736	0.000805	0.25747	7.52E-07	0.000101	9.78E-05	0.000107
6	2026	Fuel Tanks Street Ligh	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	10.4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00013	0.000562	2.178482	5.76E-06	3.46E-05	3.35E-05	4.47E-05
6	2026	Fuel Tanks Street Ligh	Loader	Tractors/Loaders/Backhoes175	Diesel	175	0.59	10.4	8.13E-01	1.46E+00	6.26E+02	1.83E-03	1.89E-01	1.83E-01	2.03E-01	0.000963	0.001731	0.740921	2.16E-06	0.000223	0.000216	0.000241
6	2026	Fuel Tanks Street Ligh	Other General Equipment	Other Construction Equipment175	Diesel	175	0.43	10.4	1.94E-01	5.94E-01	5.37E+02	1.47E-03	4.71E-02	4.57E-02	3.37E-02	0.000167	0.000512	0.463026	1.27E-06	4.06E-05	3.94E-05	2.91E-05
6	2026	Fuel Tanks Street Ligh	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	10.4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.00013	0.000562	2.178482	5.76E-06	3.46E-05	3.35E-05	4.47E-05
6	2026	Fuel Tanks Street Ligh	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	10.4	2.74E+00	3.79E+00	6.94E+02	2.13E-03	3.66E-01	3.55E-01	5.18E-01	0.000495	0.000685	0.125394	3.85E-07	6.6E-05	6.4E-05	9.35E-05
6	2026	Fuel Tanks Street Ligh	Tractors/Loader/Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	10.4	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.000478	0.000524	0.167355	4.89E-07	6.55E-05	6.35E-05	6.99E-05
6	2026	Fuel Tanks Subbase P	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	36.80526	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000328	0.001053	2.248618	5.97E-06	7.87E-05	7.63E-05	5.14E-05
6	2026	Fuel Tanks Subbase P	Dump Truck (12 cy)	Off-highway Trucks600	Diesel	600	0.59	259	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.003249	0.013986	54.25258	0.000143	0.000861	0.000835	0.001114
6	2026	Fuel Tanks Subbase P	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	36.80526	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000462	0.001987	7.709577	2.04E-05	0.000122	0.000119	0.000158
6	2026	Fuel Tanks Subbase P	Roller	Rollers100	Diesel	100	0.59	35.86154	2.57E-01	1.04E+00	5.96E+02	1.60E-03	4.33E-02	4.20E-02	2.11E-02	0.0006	0.002426	1.390287	3.73E-06	0.000101	9.8E-05	4.93E-05
6	2026	Fuel Tanks Topsoil Pla	Dozer	Crawler Tractor/Dozers175	Diesel	175	0.59	86.01333	7.83E-02	2.51E-01	5.37E+02	1.42E-03	1.88E-02	1.82E-02	1.23E-02	0.000767	0.00246	5.254985	1.39E-05	0.000184	0.000178	0.00012
6	2026	Fuel Tanks Topsoil Pla	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	86.01333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001079	0.004645	18.01716	4.76E-05	0.000286	0.000277	0.00037
6	2026	Fuel Tanks Topsoil Pla	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	86.01333	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001079	0.004645	18.01716	4.76E-05	0.000286	0.000277	0.00037
7	2026	Building - Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.014712	0.016109	5.149399	1.5E-05	0.002016	0.001955	0.002149
7	2026	Building - Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
7	2026	Building - Concrete F	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	320	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.009668	0.02636	12.40456	3.39E-05	0.001459	0.001416	0.000874

7	2026	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001004	0.00432	16.75755	4.43E-05	0.000266	0.000258	0.000344
7	2026	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
7	2026	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000125	0.00054	2.094694	5.53E-06	3.32E-05	3.22E-05	4.3E-05
7	2026	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.02E-05	0.000216	0.837878	2.21E-06	1.33E-05	1.29E-05	1.72E-05
7	2026	Building -	Exterior W	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	240	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.007251	0.01977	9.303418	2.55E-05	0.001095	0.001062	0.000655
7	2026	Building -	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	240	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.001669	0.011059	2.483096	6.77E-06	0.000178	0.000172	0.000312
7	2026	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
7	2026	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000301	0.001296	5.027266	1.33E-05	7.98E-05	7.74E-05	0.000103
7	2026	Building -	Interior Bu	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	960	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.029003	0.07908	37.21367	0.000102	0.004378	0.004247	0.002622
7	2026	Building -	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	960	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.006678	0.044236	9.932385	2.71E-05	0.000711	0.000689	0.001248
7	2026	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001505	0.00648	25.13633	6.64E-05	0.000399	0.000387	0.000516
7	2026	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001505	0.00648	25.13633	6.64E-05	0.000399	0.000387	0.000516
7	2026	Building -	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	120	3.66E-01	1.15E+00	5.96E+02	1.62E-03	5.63E-02	5.46E-02	3.26E-02	0.002857	0.008945	4.651924	1.26E-05	0.00044	0.000426	0.000254
7	2026	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts75	Diesel	75	0.21	120	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.000835	0.005529	1.241548	3.38E-06	8.88E-05	8.61E-05	0.000156
7	2026	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0001	0.000432	1.675755	4.43E-06	2.66E-05	2.58E-05	3.44E-05
7	2026	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000151	0.000648	2.513633	6.64E-06	3.99E-05	3.87E-05	5.16E-05
7	2026	Building -	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	320	3.66E-01	1.15E+00	5.96E+02	1.62E-03	5.63E-02	5.46E-02	3.26E-02	0.007618	0.023854	12.40513	3.36E-05	0.001172	0.001137	0.000677
7	2026	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001004	0.00432	16.75755	4.43E-05	0.000266	0.000258	0.000344
7	2026	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	6.78E-02	2.77E-01	5.31E+02	1.43E-03	1.52E-02	1.48E-02	2.06E-02	0.002315	0.009465	18.12123	4.87E-05	0.00052	0.000504	0.000702
7	2026	Building -	Structural	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	120	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.003625	0.009885	4.651709	1.27E-05	0.000547	0.000531	0.000328
7	2026	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
7	2026	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
8	2026	Building -	Concrete F	Backhoe	Tractors/Loaders/Backhoes100	Diesel	100	0.21	320	1.99E+00	2.17E+00	6.95E+02	2.03E-03	2.72E-01	2.64E-01	2.90E-01	0.014712	0.016109	5.149399	1.5E-05	0.002016	0.001955	0.002149
8	2026	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
8	2026	Building -	Concrete F	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	320	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.009668	0.02636	12.40456	3.39E-05	0.001459	0.001416	0.000874
8	2026	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001004	0.00432	16.75755	4.43E-05	0.000266	0.000258	0.000344
8	2026	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
8	2026	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000125	0.00054	2.094694	5.53E-06	3.32E-05	3.22E-05	4.3E-05
8	2026	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	5.02E-05	0.000216	0.837878	2.21E-06	1.33E-05	1.29E-05	1.72E-05
8	2026	Building -	Exterior W	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	240	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.007251	0.01977	9.303418	2.55E-05	0.001095	0.001062	0.000655
8	2026	Building -	Exterior W	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	240	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.001669	0.011059	2.483096	6.77E-06	0.000178	0.000172	0.000312
8	2026	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
8	2026	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000301	0.001296	5.027266	1.33E-05	7.98E-05	7.74E-05	0.000103
8	2026	Building -	Interior Bu	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	960	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.029003	0.07908	37.21367	0.000102	0.004378	0.004247	0.002622
8	2026	Building -	Interior Bu	Man Lift	Rough Terrain Forklifts75	Diesel	75	0.21	960	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.006678	0.044236	9.932385	2.71E-05	0.000711	0.000689	0.001248
8	2026	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001505	0.00648	25.13633	6.64E-05	0.000399	0.000387	0.000516
8	2026	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001505	0.00648	25.13633	6.64E-05	0.000399	0.000387	0.000516
8	2026	Building -	Roofing	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	120	3.66E-01	1.15E+00	5.96E+02	1.62E-03	5.63E-02	5.46E-02	3.26E-02	0.002857	0.008945	4.651924	1.26E-05	0.00044	0.000426	0.000254
8	2026	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklifts75	Diesel	75	0.21	120	4.01E-01	2.65E+00	5.96E+02	1.62E-03	4.26E-02	4.14E-02	7.49E-02	0.000835	0.005529	1.241548	3.38E-06	8.88E-05	8.61E-05	0.000156
8	2026	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.0001	0.000432	1.675755	4.43E-06	2.66E-05	2.58E-05	3.44E-05
8	2026	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000151	0.000648	2.513633	6.64E-06	3.99E-05	3.87E-05	5.16E-05
8	2026	Building -	Security &	High Lift	Rough Terrain Forklifts100	Diesel	100	0.59	320	3.66E-01	1.15E+00	5.96E+02	1.62E-03	5.63E-02	5.46E-02	3.26E-02	0.007618	0.023854	12.40513	3.36E-05	0.001172	0.001137	0.000677
8	2026	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.001004	0.00432	16.75755	4.43E-05	0.000266	0.000258	0.000344
8	2026	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	6.78E-02	2.77E-01	5.31E+02	1.43E-03	1.52E-02	1.48E-02	2.06E-02	0.002315	0.009465	18.12123	4.87E-05	0.00052	0.000504	0.000702
8	2026	Building -	Structural	Fork Truck	Other Construction Equipment100	Diesel	100	0.59	120	4.65E-01	1.27E+00	5.96E+02	1.63E-03	7.01E-02	6.80E-02	4.20E-02	0.003625	0.009885	4.651709	1.27E-05	0.000547	0.000531	0.000328
8	2026	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000753	0.00324	12.56817	3.32E-05	0.000199	0.000193	0.000258
8	2026	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	3.21E-02	1.38E-01	5.37E+02	1.42E-03	8.52E-03	8.26E-03	1.10E-02	0.000201	0.000864	3.351511	8.85E-06	5.32E-05	5.16E-05	6.88E-05
																Totals	**0.957761**	**3.101563**	**7037.806**	**0.018688**	**0.197823**	**0.191888**	**0.213657**

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

																						MOVES ONROAD Emissions				
																						7	10	13	11	12
Scenario II	Year	Project	Equipmen	Equipment Category	On-road Activity	Lookup	Fuel	Roadway T	Round Trip	Distance f	Number o	Number o	Number o	Project Le	Project Wi	Project Ar	Building H	Open Spac	Number o	Activity Ra	VMT	CO	NOx	SO2	PM10	PM2.5
1	2026	Taxiways	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	1650	15	--	--	--	--	--	359	2.165782	3.764728	0.005398	0.060051	0.055247
1	2026	Taxiways	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	1650	15	--	--	--	--	--	5723	1.243319	1.725104	0.003352	0.028642	0.026351
1	2026	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	1650	15	--	--	--	--	--	509	1.243319	1.725104	0.003352	0.028642	0.026351
1	2026	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	1650	15	--	--	--	--	--	3053	1.243319	1.725104	0.003352	0.028642	0.026351
1	2026	Taxiways	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	242	242	129	--	--	--	--	--	--	--	936540	2.68336	0.051009	0.00205	0.002018	0.001785
2	2026	Terminal A	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	358	200	--	--	--	--	--	1039	2.165782	3.764728	0.005398	0.060051	0.055247
2	2026	Terminal A	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	2	--	129	358	200	--	--	--	--	--	16558	1.243319	1.725104	0.003352	0.028642	0.026351
2	2026	Terminal A	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	358	200	--	--	--	--	--	1472	1.243319	1.725104	0.003352	0.028642	0.026351
2	2026	Terminal A	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	358	200	--	--	--	--	--	8831	1.243319	1.725104	0.003352	0.028642	0.026351
2	2026	Terminal A	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	76	76	129	--	--	--	--	--	--	--	294120	2.68336	0.051009	0.00205	0.002018	0.001785
3	2026	Terminal A	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	200	388	--	--	--	--	--	1126	2.165782	3.764728	0.005398	0.060051	0.055247
3	2026	Terminal A	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	2	--	129	200	388	--	--	--	--	--	17945	1.243319	1.725104	0.003352	0.028642	0.026351
3	2026	Terminal A	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	200	388	--	--	--	--	--	1595	1.243319	1.725104	0.003352	0.028642	0.026351
3	2026	Terminal A	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	200	388	--	--	--	--	--	9571	1.243319	1.725104	0.003352	0.028642	0.026351
3	2026	Terminal A	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	187	187	129	--	--	--	--	--	--	--	723690	2.68336	0.051009	0.00205	0.002018	0.001785
4	2026	Taxiways	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	1220	22	--	--	--	--	--	389	2.165782	3.764728	0.005398	0.060051	0.055247
4	2026	Taxiways	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	1220	22	--	--	--	--	--	6207	1.243319	1.725104	0.003352	0.028642	0.026351
4	2026	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	1220	22	--	--	--	--	--	552	1.243319	1.725104	0.003352	0.028642	0.026351
4	2026	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	1220	22	--	--	--	--	--	3310	1.243319	1.725104	0.003352	0.028642	0.026351
4	2026	Taxiways	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	627	627	129	--	--	--	--	--	--	--	2426490	2.68336	0.051009	0.00205	0.002018	0.001785
5	2026	Taxiways	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	934	18	--	--	--	--	--	244	2.165782	3.764728	0.005398	0.060051	0.055247
5	2026	Taxiways	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	934	18	--	--	--	--	--	3888	1.243319	1.725104	0.003352	0.028642	0.026351
5	2026	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	934	18	--	--	--	--	--	346	1.243319	1.725104	0.003352	0.028642	0.026351
5	2026	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	934	18	--	--	--	--	--	2073	1.243319	1.725104	0.003352	0.028642	0.026351
5	2026	Taxiways	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	73	73	129	--	--	--	--	--	--	--	282510	2.68336	0.051009	0.00205	0.002018	0.001785
6	2026	Taxiways	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	3588	16	--	--	--	--	--	833	2.165782	3.764728	0.005398	0.060051	0.055247
6	2026	Taxiways	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	2	--	129	3588	16	--	--	--	--	--	13276	1.243319	1.725104	0.003352	0.028642	0.026351
6	2026	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	3588	16	--	--	--	--	--	1180	1.243319	1.725104	0.003352	0.028642	0.026351
6	2026	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	3588	16	--	--	--	--	--	7080	1.243319	1.725104	0.003352	0.028642	0.026351
6	2026	Taxiways	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	178.2	178.2	129	--	--	--	--	--	--	--	689634	2.68336	0.051009	0.00205	0.002018	0.001785

7	2026	Demolitior	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129	206	112 --	--	--	--	--	1424	1.243319	1.725104	0.003352	0.028642	0.026351
7	2026	Demolitior	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		68.2	68.2	129 --	--	--	--	--	--	--	263934	2.68336	0.051009	0.00205	0.002018	0.001785
1	2026	Apron (GA	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129	172	112 --	--	--	--	--	280	2.165782	3.764728	0.005398	0.060051	0.055247
1	2026	Apron (GA	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129	172	112 --	--	--	--	--	4455	1.243319	1.725104	0.003352	0.028642	0.026351
1	2026	Apron (GA	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129	172	112 --	--	--	--	--	396	1.243319	1.725104	0.003352	0.028642	0.026351
1	2026	Apron (GA	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129	172	112 --	--	--	--	--	2376	1.243319	1.725104	0.003352	0.028642	0.026351
1	2026	Apron (GA	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		68	68	129 --	--	--	--	--	--	--	263160	2.68336	0.051009	0.00205	0.002018	0.001785
2	2026	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129 --	--		10000 --	--	--	--	2313	1.243319	1.725104	0.003352	0.028642	0.026351
2	2026	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129 --	--		10000 --	--	--	--	1233	1.243319	1.725104	0.003352	0.028642	0.026351
2	2026	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		968	968	129 --	--	--	--	--	--	--	3746160	2.68336	0.051009	0.00205	0.002018	0.001785
2	2026	Building -	Tractor Tr:	Combination Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129 --	--		10000 --	--	--	0.0016	160	2.165782	3.764728	0.005398	0.060051	0.055247
3	2026	Demolitior	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129	1080	28 --	--	--	--	--	6720	1.243319	1.725104	0.003352	0.028642	0.026351
3	2026	Demolitior	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		35.2	35.2	129 --	--	--	--	--	--	--	136224	2.68336	0.051009	0.00205	0.002018	0.001785
4	2026	Access Ro:	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		258	720	40 --	--	--	--	--	418	2.165782	3.764728	0.005398	0.060051	0.055247
4	2026	Access Ro:	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		258	720	40 --	--	--	--	--	6660	1.243319	1.725104	0.003352	0.028642	0.026351
4	2026	Access Ro:	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		258	720	40 --	--	--	--	--	592	1.243319	1.725104	0.003352	0.028642	0.026351
4	2026	Access Ro:	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		258	720	40 --	--	--	--	--	3552	1.243319	1.725104	0.003352	0.028642	0.026351
4	2026	Access Ro:	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		86	86	258 --	--	--	--	--	--	--	665640	2.68336	0.051009	0.00205	0.002018	0.001785
5	2026	Open Park	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129 --	--		10000 --	--	--	--	2313	1.243319	1.725104	0.003352	0.028642	0.026351
5	2026	Open Park	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129 --	--		10000 --	--	--	--	206	1.243319	1.725104	0.003352	0.028642	0.026351
5	2026	Open Park	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129 --	--		10000 --	--	--	--	1233	1.243319	1.725104	0.003352	0.028642	0.026351
5	2026	Open Park	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		90.2	90.2	129 --	--	--	--	--	--	--	349074	2.68336	0.051009	0.00205	0.002018	0.001785
5	2026	Open Park	Tractor Tr:	Combination Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		129 --	--		10000 --	--	--	0.0012	120	2.165782	3.764728	0.005398	0.060051	0.055247
6	2026	Fuel Tanks	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		65	1575	100 --	--	--	--	--	2285	2.165782	3.764728	0.005398	0.060051	0.055247
6	2026	Fuel Tanks	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	8 --		65	1575	100 --	--	--	--	--	36422	1.243319	1.725104	0.003352	0.028642	0.026351
6	2026	Fuel Tanks	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		65	1575	100 --	--	--	--	--	3238	1.243319	1.725104	0.003352	0.028642	0.026351
6	2026	Fuel Tanks	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	4 --		65	1575	100 --	--	--	--	--	19425	1.243319	1.725104	0.003352	0.028642	0.026351
6	2026	Fuel Tanks	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		71	71	65 --	--	--	--	--	--	--	138450	2.68336	0.051009	0.00205	0.002018	0.001785
7	2026	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		65 --	--		10000 --	--	--	--	2313	1.243319	1.725104	0.003352	0.028642	0.026351
7	2026	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		65 --	--		10000 --	--	--	--	1233	1.243319	1.725104	0.003352	0.028642	0.026351
7	2026	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		55	55	65 --	--	--	--	--	--	--	107250	2.68336	0.051009	0.00205	0.002018	0.001785
7	2026	Building -	Tractor Tr:	Combination Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		65 --	--		10000 --	--	--	0.0016	160	2.165782	3.764728	0.005398	0.060051	0.055247
8	2026	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		65 --	--		10000 --	--	--	--	2313	1.243319	1.725104	0.003352	0.028642	0.026351
8	2026	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		65 --	--		10000 --	--	--	--	1233	1.243319	1.725104	0.003352	0.028642	0.026351
8	2026	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30 --		89.1	89.1	65 --	--	--	--	--	--	--	173745	2.68336	0.051009	0.00205	0.002018	0.001785
8	2026	Building -	Tractor Tr:	Combination Short-haul Truck	Material Delivery	DieselUrb:	Diesel	Urban Unr	40	5	1 --		65 --	--		10000 --	--	--	0.0016	160	2.165782	3.764728	0.005398	0.060051	0.055247

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario II	Year	Project	Fugitive Sc	Number of Months	CO	NOx	SO2	PM10	VOC
1	2026	Taxiways	Asphalt Dr	6	0	0	0	0	0.05
1	2026	Taxiways	Asphalt St	6	0.0599	0.003739	0.000688	0.004101	0.001855
1	2026	Taxiways	Material N	6	0	0	0	0.01195	0
1	2026	Taxiways	Material N	6	0	0	0	0.0385	0
1	2026	Taxiways	Soil Handl	6	0	0	0	0.007	0
1	2026	Taxiways	Unstabiliz	6	0	0	0	4.99E-09	0
2	2026	Terminal A	Asphalt Dr	6	0	0	0	0	0.05
2	2026	Terminal A	Asphalt St	6	0.17325	0.0108	0.001991	0.01185	0.00535
2	2026	Terminal A	Concrete N	6	0	0	0	0.06125	0
2	2026	Terminal A	Material N	6	0	0	0	0.01495	0
2	2026	Terminal A	Material N	6	0	0	0	0.0471	0
2	2026	Terminal A	Soil Handl	6	0	0	0	0.02025	0
2	2026	Terminal A	Unstabiliz	6	0	0	0	1.44E-08	0
3	2026	Terminal A	Asphalt Dr	6	0	0	0	0	0.05
3	2026	Terminal A	Asphalt St	6	0.18775	0.0117	0.002157	0.01285	0.0058
3	2026	Terminal A	Concrete N	6	0	0	0	0.0664	0
3	2026	Terminal A	Material N	6	0	0	0	0.01495	0
3	2026	Terminal A	Material N	6	0	0	0	0.04715	0
3	2026	Terminal A	Soil Handl	6	0	0	0	0.02195	0
3	2026	Terminal A	Unstabiliz	6	0	0	0	1.57E-08	0
4	2026	Taxiways	Asphalt Dr	6	0	0	0	0	0.05
4	2026	Taxiways	Asphalt St	6	0.06495	0.004055	0.000746	0.004448	0.002011
4	2026	Taxiways	Concrete N	6	0	0	0	0.02295	0
4	2026	Taxiways	Material N	6	0	0	0	0.01195	0
4	2026	Taxiways	Material N	6	0	0	0	0.03795	0
4	2026	Taxiways	Soil Handl	6	0	0	0	0.0076	0
4	2026	Taxiways	Unstabiliz	6	0	0	0	5.42E-09	0
5	2026	Taxiways	Asphalt Dr	6	0	0	0	0	0.05
5	2026	Taxiways	Asphalt St	6	0.0407	0.00254	0.000468	0.002786	0.00126
5	2026	Taxiways	Concrete N	6	0	0	0	0.0144	0
5	2026	Taxiways	Material N	6	0	0	0	0.01195	0
5	2026	Taxiways	Material N	6	0	0	0	0.03725	0
5	2026	Taxiways	Soil Handl	6	0	0	0	0.004759	0
5	2026	Taxiways	Unstabiliz	6	0	0	0	3.39E-09	0
6	2026	Taxiways	Asphalt Dr	6	0	0	0	0	0.05
6	2026	Taxiways	Asphalt St	6	0.1389	0.00865	0.001596	0.0095	0.004302
6	2026	Taxiways	Concrete N	6	0	0	0	0.0491	0
6	2026	Taxiways	Material N	6	0	0	0	0.01495	0
6	2026	Taxiways	Material N	6	0	0	0	0.05115	0
6	2026	Taxiways	Soil Handl	6	0	0	0	0.01625	0
6	2026	Taxiways	Unstabiliz	6	0	0	0	1.16E-08	0
7	2026	Demolitior	Material N	6	0	0	0	0.002994	0

7	2026	Demolitior	Material N	6	0	0	0	0.00935	0
7	2026	Demolitior	Soil Handli	6	0	0	0	0.00655	0
7	2026	Demolitior	Unstabiliz	6	0	0	0	4.65E-09	0
1	2026	Apron (GA	Asphalt Dr	6	0	0	0	0	0.05
1	2026	Apron (GA	Asphalt St	6	0.0466	0.00291	0.000536	0.003192	0.001444
1	2026	Apron (GA	Material N	6	0	0	0	0.01195	0
1	2026	Apron (GA	Material N	6	0	0	0	0.03625	0
1	2026	Apron (GA	Soil Handli	6	0	0	0	0.00545	0
1	2026	Apron (GA	Unstabiliz	6	0	0	0	3.89E-09	0
2	2026	Building - :	Concrete I	6	0	0	0	0.00855	0
2	2026	Building - :	Material N	6	0	0	0	0.006	0
2	2026	Building - :	Material N	6	0	0	0	0.01765	0
3	2026	Demolitior	Material N	6	0	0	0	0.002994	0
3	2026	Demolitior	Material N	6	0	0	0	0.00935	0
3	2026	Demolitior	Soil Handli	6	0	0	0	0.00855	0
3	2026	Demolitior	Unstabiliz	6	0	0	0	6.10E-09	0
4	2026	Access Roa	Asphalt Dr	12	0	0	0	0	0.05
4	2026	Access Roa	Asphalt St	12	0.0697	0.004351	0.000801	0.004772	0.002158
4	2026	Access Roa	Concrete I	12	0	0	0	0.02465	0
4	2026	Access Roa	Material N	12	0	0	0	0.02395	0
4	2026	Access Roa	Material N	12	0	0	0	0.07275	0
4	2026	Access Roa	Soil Handli	12	0	0	0	0.00815	0
4	2026	Access Roa	Unstabiliz	12	0	0	0	1.16E-08	0
5	2026	Open Park	Asphalt Dr	6	0	0	0	0	0.05
5	2026	Open Park	Material N	6	0	0	0	0.009	0
5	2026	Open Park	Material N	6	0	0	0	0.02665	0
5	2026	Open Park	Soil Handli	6	0	0	0	0.002831	0
5	2026	Open Park	Unstabiliz	6	0	0	0	2.02E-09	0
6	2026	Fuel Tanks	Asphalt Dr	3	0	0	0	0	0.05
6	2026	Fuel Tanks	Asphalt St	3	0.3811	0.0238	0.004378	0.0261	0.0118
6	2026	Fuel Tanks	Concrete I	3	0	0	0	0.13475	0
6	2026	Fuel Tanks	Material N	3	0	0	0	0.0211	0
6	2026	Fuel Tanks	Material N	3	0	0	0	0.0941	0
6	2026	Fuel Tanks	Soil Handli	3	0	0	0	0.0446	0
6	2026	Fuel Tanks	Unstabiliz	3	0	0	0	1.59E-08	0
7	2026	Building - :	Concrete I	3	0	0	0	0.00855	0
7	2026	Building - :	Material N	3	0	0	0	0.003017	0
7	2026	Building - :	Material N	3	0	0	0	0.0089	0
8	2026	Building - :	Concrete I	3	0	0	0	0.00855	0
8	2026	Building - :	Material N	3	0	0	0	0.003017	0
8	2026	Building - :	Material N	3	0	0	0	0.0089	0
			totals		1.16285	0.072545	0.013359	1.340408	0.535979

2026 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2026	NonRoad	0.957761	3.101563	0.018688189	0.19782279	0.191888	0.213657	7037.806	--	--	
2026	OnRoad	33.41468	1.046677	0.026093095	0.031812003	0.028386	0.16006	1615.33	0.019075	0.002802	
2026	Fugitive	1.16285	0.072545	0.013359	1.3404081	--	0.535979	--	--	--	
2026	TOTAL	35.53529	4.220786	0.058140284	1.570042893	0.220274	0.909696	8653.135	0.019075	0.002802	8654.412

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching

Soil handling
Unstabilized land and wind erosion
Material movement (unpaved roads)
Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:
Asphalt Deliveries/Ten Wheelers
Bulldozer
Concrete Ready Mix Trucks
Concrete Ready Trucks Mix for Cores
Concrete Truck
Crack Filler (Trailer Mounted)
Delivery of Tanks (3)
Distributing Tanker
Dozer
Dump Truck
Dump Truck (12 cy)

Factors (g/mile)							MOVES ONROAD Emissions (tpy)					
14	5	8	9	7	10	13	11	12	14	5	8	9
VOC	CO2	CH4	N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
0.16006	1615.33	0.019075	0.002802	0.000857	0.00149	2.14E-06	2.38E-05	2.19E-05	6.33E-05	0.639237	7.55E-06	1.11E-06
0.092716	1001.869	0.015167	0.003286	0.007844	0.010883	2.11E-05	0.000181	0.000166	0.000585	6.320352	9.57E-05	2.07E-05
0.092716	1001.869	0.015167	0.003286	0.000698	0.000968	1.88E-06	1.61E-05	1.48E-05	5.2E-05	0.562128	8.51E-06	1.84E-06
0.092716	1001.869	0.015167	0.003286	0.004184	0.005806	1.13E-05	9.64E-05	8.87E-05	0.000312	3.371664	5.1E-05	1.11E-05
0.058187	308.5568	0.006878	0.00167	2.770204	0.05266	0.002116	0.002083	0.001843	0.06007	318.543	0.007101	0.001724
0.16006	1615.33	0.019075	0.002802	0.00248	0.004312	6.18E-06	6.88E-05	6.33E-05	0.000183	1.850049	2.18E-05	3.21E-06
0.092716	1001.869	0.015167	0.003286	0.022693	0.031487	6.12E-05	0.000523	0.000481	0.001692	18.28628	0.000277	6E-05
0.092716	1001.869	0.015167	0.003286	0.002017	0.002799	5.44E-06	4.65E-05	4.28E-05	0.00015	1.625644	2.46E-05	5.33E-06
0.092716	1001.869	0.015167	0.003286	0.012103	0.016793	3.26E-05	0.000279	0.000257	0.000903	9.752757	0.000148	3.2E-05
0.058187	308.5568	0.006878	0.00167	0.869981	0.016538	0.000665	0.000654	0.000579	0.018865	100.0383	0.00223	0.000541
0.16006	1615.33	0.019075	0.002802	0.002688	0.004673	6.7E-06	7.45E-05	6.86E-05	0.000199	2.004962	2.37E-05	3.48E-06
0.092716	1001.869	0.015167	0.003286	0.024594	0.034124	6.63E-05	0.000567	0.000521	0.001834	19.81805	0.0003	6.5E-05
0.092716	1001.869	0.015167	0.003286	0.002186	0.003033	5.89E-06	5.04E-05	4.63E-05	0.000163	1.761482	2.67E-05	5.78E-06
0.092716	1001.869	0.015167	0.003286	0.013117	0.0182	3.54E-05	0.000302	0.000278	0.000978	10.57	0.00016	3.47E-05
0.058187	308.5568	0.006878	0.00167	2.140612	0.040692	0.001635	0.00161	0.001424	0.046418	246.1468	0.005487	0.001332
0.16006	1615.33	0.019075	0.002802	0.000929	0.001614	2.31E-06	2.58E-05	2.37E-05	6.86E-05	0.692656	8.18E-06	1.2E-06
0.092716	1001.869	0.015167	0.003286	0.008507	0.011803	2.29E-05	0.000196	0.00018	0.000634	6.854871	0.000104	2.25E-05
0.092716	1001.869	0.015167	0.003286	0.000757	0.00105	2.04E-06	1.74E-05	1.6E-05	5.64E-05	0.609616	9.23E-06	2E-06
0.092716	1001.869	0.015167	0.003286	0.004536	0.006294	1.22E-05	0.000105	9.61E-05	0.000338	3.655489	5.53E-05	1.2E-05
0.058187	308.5568	0.006878	0.00167	7.177347	0.136437	0.005483	0.005398	0.004775	0.155636	825.3159	0.018398	0.004467
0.16006	1615.33	0.019075	0.002802	0.000583	0.001013	1.45E-06	1.62E-05	1.49E-05	4.31E-05	0.434468	5.13E-06	7.54E-07
0.092716	1001.869	0.015167	0.003286	0.005329	0.007393	1.44E-05	0.000123	0.000113	0.000397	4.29382	6.5E-05	1.41E-05
0.092716	1001.869	0.015167	0.003286	0.000474	0.000658	1.28E-06	1.09E-05	1.01E-05	3.54E-05	0.382115	5.78E-06	1.25E-06
0.092716	1001.869	0.015167	0.003286	0.002841	0.003942	7.66E-06	6.55E-05	6.02E-05	0.000212	2.289374	3.47E-05	7.51E-06
0.058187	308.5568	0.006878	0.00167	0.83564	0.015885	0.000638	0.000628	0.000556	0.01812	96.08941	0.002142	0.00052
0.16006	1615.33	0.019075	0.002802	0.001989	0.003457	4.96E-06	5.51E-05	5.07E-05	0.000147	1.483244	1.75E-05	2.57E-06
0.092716	1001.869	0.015167	0.003286	0.018195	0.025246	4.91E-05	0.000419	0.000386	0.001357	14.66172	0.000222	4.81E-05
0.092716	1001.869	0.015167	0.003286	0.001617	0.002244	4.36E-06	3.73E-05	3.43E-05	0.000121	1.303165	1.97E-05	4.27E-06
0.092716	1001.869	0.015167	0.003286	0.009703	0.013463	2.62E-05	0.000224	0.000206	0.000724	7.818992	0.000118	2.56E-05
0.058187	308.5568	0.006878	0.00167	2.039877	0.038777	0.001558	0.001534	0.001357	0.044233	234.5635	0.005229	0.001269

0.092716	1001.869	0.015167	0.003286	0.001952	0.002708	5.26E-06	4.5E-05	4.14E-05	0.000146	1.572634	2.38E-05	5.16E-06
0.058187	308.5568	0.006878	0.00167	0.780694	0.014841	0.000596	0.000587	0.000519	0.016929	89.7712	0.002001	0.000486
0.16006	1615.33	0.019075	0.002802	0.000668	0.001162	1.67E-06	1.85E-05	1.71E-05	4.94E-05	0.49857	5.89E-06	8.65E-07
0.092716	1001.869	0.015167	0.003286	0.006106	0.008472	1.65E-05	0.000141	0.000129	0.000455	4.920002	7.45E-05	1.61E-05
0.092716	1001.869	0.015167	0.003286	0.000543	0.000753	1.46E-06	1.25E-05	1.15E-05	4.05E-05	0.437333	6.62E-06	1.43E-06
0.092716	1001.869	0.015167	0.003286	0.003256	0.004518	8.78E-06	7.5E-05	6.9E-05	0.000243	2.624001	3.97E-05	8.61E-06
0.058187	308.5568	0.006878	0.00167	0.778404	0.014797	0.000595	0.000585	0.000518	0.016879	89.50794	0.001995	0.000484
0.092716	1001.869	0.015167	0.003286	0.00317	0.004398	8.55E-06	7.3E-05	6.72E-05	0.000236	2.554425	3.87E-05	8.38E-06
0.092716	1001.869	0.015167	0.003286	0.00169	0.002345	4.56E-06	3.89E-05	3.58E-05	0.000126	1.361697	2.06E-05	4.47E-06
0.058187	308.5568	0.006878	0.00167	11.08082	0.21064	0.008464	0.008333	0.007372	0.24028	1274.172	0.028404	0.006896
0.16006	1615.33	0.019075	0.002802	0.000382	0.000664	9.52E-07	1.06E-05	9.74E-06	2.82E-05	0.284897	3.36E-06	4.94E-07
0.092716	1001.869	0.015167	0.003286	0.00921	0.012779	2.48E-05	0.000212	0.000195	0.000687	7.421417	0.000112	2.43E-05
0.058187	308.5568	0.006878	0.00167	0.402939	0.00766	0.000308	0.000303	0.000268	0.008737	46.33352	0.001033	0.000251
0.16006	1615.33	0.019075	0.002802	0.000998	0.001735	2.49E-06	2.77E-05	2.55E-05	7.38E-05	0.744293	8.79E-06	1.29E-06
0.092716	1001.869	0.015167	0.003286	0.009128	0.012665	2.46E-05	0.00021	0.000193	0.000681	7.355154	0.000111	2.41E-05
0.092716	1001.869	0.015167	0.003286	0.000811	0.001126	2.19E-06	1.87E-05	1.72E-05	6.05E-05	0.653791	9.9E-06	2.14E-06
0.092716	1001.869	0.015167	0.003286	0.004868	0.006755	1.31E-05	0.000112	0.000103	0.000363	3.922749	5.94E-05	1.29E-05
0.058187	308.5568	0.006878	0.00167	1.968905	0.037428	0.001504	0.001481	0.00131	0.042694	226.4024	0.005047	0.001225
0.092716	1001.869	0.015167	0.003286	0.00317	0.004398	8.55E-06	7.3E-05	6.72E-05	0.000236	2.554425	3.87E-05	8.38E-06
0.092716	1001.869	0.015167	0.003286	0.000282	0.000392	7.61E-07	6.5E-06	5.98E-06	2.11E-05	0.227502	3.44E-06	7.46E-07
0.092716	1001.869	0.015167	0.003286	0.00169	0.002345	4.56E-06	3.89E-05	3.58E-05	0.000126	1.361697	2.06E-05	4.47E-06
0.058187	308.5568	0.006878	0.00167	1.032531	0.019628	0.000789	0.000777	0.000687	0.02239	118.7297	0.002647	0.000643
0.16006	1615.33	0.019075	0.002802	0.000286	0.000498	7.14E-07	7.94E-06	7.31E-06	2.12E-05	0.213673	2.52E-06	3.71E-07
0.16006	1615.33	0.019075	0.002802	0.005455	0.009483	1.36E-05	0.000151	0.000139	0.000403	4.068684	4.8E-05	7.06E-06
0.092716	1001.869	0.015167	0.003286	0.049918	0.069261	0.000135	0.00115	0.001058	0.003722	40.22364	0.000609	0.000132
0.092716	1001.869	0.015167	0.003286	0.004438	0.006157	1.2E-05	0.000102	9.41E-05	0.000331	3.575974	5.41E-05	1.17E-05
0.092716	1001.869	0.015167	0.003286	0.026623	0.036939	7.18E-05	0.000613	0.000564	0.001985	21.45253	0.000325	7.04E-05
0.058187	308.5568	0.006878	0.00167	0.409523	0.007785	0.000313	0.000308	0.000272	0.00888	47.09065	0.00105	0.000255
0.092716	1001.869	0.015167	0.003286	0.00317	0.004398	8.55E-06	7.3E-05	6.72E-05	0.000236	2.554425	3.87E-05	8.38E-06
0.092716	1001.869	0.015167	0.003286	0.00169	0.002345	4.56E-06	3.89E-05	3.58E-05	0.000126	1.361697	2.06E-05	4.47E-06
0.058187	308.5568	0.006878	0.00167	0.317236	0.00603	0.000242	0.000239	0.000211	0.006879	36.47867	0.000813	0.000197
0.16006	1615.33	0.019075	0.002802	0.000382	0.000664	9.52E-07	1.06E-05	9.74E-06	2.82E-05	0.284897	3.36E-06	4.94E-07
0.092716	1001.869	0.015167	0.003286	0.00317	0.004398	8.55E-06	7.3E-05	6.72E-05	0.000236	2.554425	3.87E-05	8.38E-06
0.092716	1001.869	0.015167	0.003286	0.00169	0.002345	4.56E-06	3.89E-05	3.58E-05	0.000126	1.361697	2.06E-05	4.47E-06
0.058187	308.5568	0.006878	0.00167	0.513923	0.009769	0.000393	0.000387	0.000342	0.011144	59.09545	0.001317	0.00032
0.16006	1615.33	0.019075	0.002802	0.000382	0.000664	9.52E-07	1.06E-05	9.74E-06	2.82E-05	0.284897	3.36E-06	4.94E-07
			totals	**33.41468**	**1.046677**	**0.026093**	**0.031812**	**0.028386**	**0.740219**	**4045.751**	**0.088443**	**0.021368**

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 1:15:42 PM

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STUDY

Study Name

Austin Airport

Study Description

2027 Construction Schedule

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

										NONROAD Emission Factors g/-hp-hr							NONROAD Emissions (TPY)						
										3	6	2	9	7	8	11							
Scenario I[	Year	Project	Constructi	Equipment	MovesLoo	Fuel	HP Averag	Load Facto	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)	PM10 (tpy	PM2.5 (tp\	VOC Exhaust (tpy)
1	2027	Taxiways	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	9.330625	0.083087	0.250139	536.7939	0.001426	0.020077	0.019475	0.012961	8.82E-05	0.000266	0.570053	1.51E-06	2.13E-05	2.07E-05	1.38E-05
1	2027	Taxiways	Asphalt Pl	Dump Truck	Off-highw	Diesel	600	0.59	33.60495	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000356	0.001663	7.03923	1.86E-05	0.000101	9.79E-05	0.000137
1	2027	Taxiways	Asphalt Pl	Other General Equipment	Other Con	Diesel	175	0.43	18.66125	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.00026	0.000775	0.830853	2.26E-06	6.32E-05	6.13E-05	4.47E-05
1	2027	Taxiways	Asphalt Pl	Pickup Truck	Off-highw	Diesel	600	0.59	9.330625	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	9.89E-05	0.000462	1.954486	5.16E-06	2.8E-05	2.72E-05	3.81E-05
1	2027	Taxiways	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	9.330625	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000103	0.000584	0.361742	9.63E-07	1.87E-05	1.81E-05	9.13E-06
1	2027	Taxiways	Asphalt Pl	Skid Steer Loader	Skid Steer	Diesel	75	0.21	9.330625	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.000416	0.000599	0.112519	3.42E-07	5.46E-05	5.29E-05	7.77E-05
1	2027	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	11.9432	1.489019	3.762538	595.1512	0.002188	0.170468	0.165354	0.351665	0.000289	0.000731	0.11557	4.25E-07	3.31E-05	3.21E-05	6.83E-05
1	2027	Taxiways	Clearing a	Chain Saw	Other Con	Diesel	11	0.7	24	2.461074	4.183513	593.7557	0.002183	0.238964	0.231795	0.837797	0.000501	0.000852	0.120953	4.45E-07	4.87E-05	4.72E-05	0.000171
1	2027	Taxiways	Clearing a	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	24	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.000443	0.001343	0.678069	1.84E-06	6.76E-05	6.56E-05	3.98E-05
1	2027	Taxiways	Clearing a	Pickup Truck	Off-highw	Diesel	600	0.59	32	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000339	0.001584	6.703041	1.77E-05	9.61E-05	9.33E-05	0.000131
1	2027	Taxiways	Drainage -	Dozer	Crawler Tr	Diesel	175	0.59	60.096	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000476	0.001548	3.671586	9.72E-06	0.000112	0.000109	7.58E-05
1	2027	Taxiways	Drainage -	Dump Truck	Off-highw	Diesel	600	0.59	60.096	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000637	0.002974	12.58831	3.32E-05	0.000181	0.000175	0.000245
1	2027	Taxiways	Drainage -	Excavator	Excavators	Diesel	175	0.59	60.096	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	0.000408	0.001341	3.671622	9.69E-06	9.41E-05	9.13E-05	6.61E-05
1	2027	Taxiways	Drainage -	Loader	Tractors/L	Diesel	175	0.59	60.096	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.004484	0.008401	4.282159	1.22E-05	0.001035	0.001004	0.001125
1	2027	Taxiways	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	60.096	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000837	0.002497	2.675648	7.27E-06	0.000203	0.000197	0.000144
1	2027	Taxiways	Drainage -	Pickup Truck	Off-highw	Diesel	600	0.59	60.096	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000637	0.002974	12.58831	3.32E-05	0.000181	0.000175	0.000245
1	2027	Taxiways	Drainage -	Roller	Rollers100	Diesel	100	0.59	60.096	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000663	0.003763	2.329883	6.2E-06	0.00012	0.000117	5.88E-05
1	2027	Taxiways	Drainage -	Dump Truck	Off-highw	Diesel	600	0.59	33.38667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000354	0.001652	6.993506	1.85E-05	0.0001	9.73E-05	0.000136
1	2027	Taxiways	Drainage -	Loader	Tractors/L	Diesel	175	0.59	33.38667	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.002491	0.004667	2.378977	6.8E-06	0.000575	0.000558	0.000625
1	2027	Taxiways	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	33.38667	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000465	0.001387	1.486471	4.04E-06	0.000113	0.00011	8.01E-05
1	2027	Taxiways	Drainage -	Pickup Truck	Off-highw	Diesel	600	0.59	33.38667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000354	0.001652	6.993506	1.85E-05	0.0001	9.73E-05	0.000136
1	2027	Taxiways	Drainage -	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	33.38667	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.001234	0.001474	0.537395	1.54E-06	0.000175	0.00017	0.000176
1	2027	Taxiways	Dust Contr	Water Truck	Off-highw	Diesel	600	0.59	2880	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.030539	0.142543	603.2737	0.001592	0.008653	0.008393	0.011749
1	2027	Taxiways	Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	41.46933	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000329	0.001068	2.533583	6.71E-06	7.74E-05	7.51E-05	5.23E-05
1	2027	Taxiways	Excavatior	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	41.46933	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00044	0.002052	8.686583	2.29E-05	0.000125	0.000121	0.000169
1	2027	Taxiways	Excavatior	Pickup Truck	Off-highw	Diesel	600	0.59	41.46933	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00044	0.002052	8.686583	2.29E-05	0.000125	0.000121	0.000169
1	2027	Taxiways	Excavatior	Roller	Rollers100	Diesel	100	0.59	19.13969	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000211	0.001199	0.742033	1.98E-06	3.83E-05	3.71E-05	1.87E-05
1	2027	Taxiways	Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	31.102	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000247	0.000801	1.900188	5.03E-06	5.81E-05	5.63E-05	3.92E-05
1	2027	Taxiways	Excavatior	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	82.93867	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000879	0.004105	17.37317	4.58E-05	0.000249	0.000242	0.000338
1	2027	Taxiways	Excavatior	Excavator	Excavators	Diesel	175	0.59	24.8816	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	0.000169	0.000555	1.520165	4.01E-06	3.89E-05	3.78E-05	2.74E-05
1	2027	Taxiways	Excavatior	Pickup Truck	Off-highw	Diesel	600	0.59	24.8816	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000264	0.001231	5.21195	1.38E-05	7.48E-05	7.25E-05	0.000102
1	2027	Taxiways	Excavatior	Roller	Rollers100	Diesel	100	0.59	24.8816	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000274	0.001558	0.964643	2.57E-06	4.98E-05	4.83E-05	2.44E-05
1	2027	Taxiways	Excavatior	Scraper	Scrapers6(	Diesel	600	0.59	31.102	0.131479	0.345281	536.7629	0.001454	0.025045	0.024294	0.023055	0.001596	0.004191	6.514493	1.77E-05	0.000304	0.000295	0.00028
1	2027	Taxiways	Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	11.70902	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	9.28E-05	0.000302	0.715367	1.89E-06	2.19E-05	2.12E-05	1.48E-05
1	2027	Taxiways	Fencing	Concrete Truck	Off-highw	Diesel	600	0.59	20.75556	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00022	0.001027	4.347667	1.15E-05	6.24E-05	6.05E-05	8.47E-05
1	2027	Taxiways	Fencing	Dump Truck	Off-highw	Diesel	600	0.59	83.02222	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00088	0.004109	17.39067	4.59E-05	0.000249	0.000242	0.000339
1	2027	Taxiways	Fencing	Other General Equipment	Other Con	Diesel	175	0.43	83.02222	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.001156	0.00345	3.696389	1E-05	0.000281	0.000273	0.000199
1	2027	Taxiways	Fencing	Pickup Truck	Off-highw	Diesel	600	0.59	83.02222	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00088	0.004109	17.39067	4.59E-05	0.000249	0.000242	0.000339
1	2027	Taxiways	Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	83.02222	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.003701	0.005326	1.00117	3.05E-06	0.000486	0.000471	0.000692
1	2027	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	83.02222	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.003069	0.003667	1.336333	3.82E-06	0.000436	0.000423	0.000438
1	2027	Taxiways	Grading	Dozer	Crawler Tr	Diesel	175	0.59	9.5891	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	7.6E-05	0.000247	0.585849	1.55E-06	1.79E-05	1.74E-05	1.21E-05
1	2027	Taxiways	Grading	Grader	Graders30	Diesel	300	0.59	9.5891	0.032003	0.140888	536.7963	0.001419	0.008755	0.008492	0.011426	5.99E-05	0.000264	1.004309	2.65E-06	1.64E-05	1.59E-05	2.14E-05
1	2027	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	9.5891	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000106	0.0006	0.371763	9.9E-07	1.92E-05	1.86E-05	9.39E-06
1	2027	Taxiways	Hydroseec	Hydroseeder	Other Con	Diesel	600	0.59	8.6388	0.400345	0.911359	536.6653	0.001534	0.064774	0.062831	0.056727	0.00135	0.003072	1.809117	5.17E-06	0.000218	0.000212	0.000191
1	2027	Taxiways	Hydroseec	Off-Road Truck	Off-highw	Diesel	600	0.59	8.6388	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	9.16E-05	0.000428	1.80957	4.78E-06	2.6E-05	2.52E-05	3.52E-05
1	2027	Taxiways	Lighting	Dump Truck	Off-highw	Diesel	600	0.59	25.38667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000269	0.001256	5.317746	1.4E-05	7.63E-05	7.4E-05	0.000104
1	2027	Taxiways	Lighting	Loader	Tractors/L	Diesel	175	0.59	25.38667	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.001894	0.003549	1.808935	5.17E-06	0.000437	0.000424	0.000475
1	2027	Taxiways	Lighting	Other General Equipment	Other Con	Diesel	175	0.43	25.38667	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000353	0.001055	1.130288	3.07E-06	8.6E-05	8.34E-05	6.09E-05
1	2027	Taxiways	Lighting	Pickup Truck	Off-highw	Diesel	600	0.59	25.38667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000269	0.001256	5.317746	1.4E-05	7.63E-05	7.4E-05	0.000104
1	2027	Taxiways	Lighting	Skid Steer Loader	Skid Steer	Diesel	75	0.21	25.38667	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.001132	0.001629	0.306139	9.32E-07	0.000148	0.000144	0.000211
1	2027	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	25.38667	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.000938	0.001121	0.408626	1.17E-06	0.000133	0.000129	0.000134
1	2027	Taxiways	Markings	Flatbed Truck	Off-highw	Diesel	600	0.59	153.7097	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00163	0.007608	32.19758	8.5E-05	0.000462	0.000448	0.000627
1	2027	Taxiways	Markings	Other General Equipment	Other Con	Diesel	175	0.43	153.7097	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.00214	0.006387	6.843601	1.86E-05	0.00052	0.000505	0.000369
1	2027	Taxiways	Markings	Pickup Truck	Off-highw	Diesel	600	0.59	153.7097	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00163	0.007608	32.19758	8.5E-05	0.000462	0.000448	0.000627
1	2027	Taxiways	Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	8	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000111	0.000332	0.356183	9.68E-07	2.71E-05	2.63E-05	1.92E-05
1	2027	Taxiways	Soil Erosio	Pickup Truck	Off-highw	Diesel	600	0.59	16	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00017	0.000792	3.351521	8.84E-06	4.81E-05	4.66E-05	6.53E-05
1	2027	Taxiways	Soil Erosio	Pumps	Other Con	Diesel	11	0.43	8	2.461074	4.183513	593.7557	0.002183	0.238964	0.231795	0.837797	0.000103	0.000175	0.024767	9.11E-08	9.97E-06	9.67E-06	3.49E-05

1	2027	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	8	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.000296	0.000353	0.128769	3.68E-07	4.2E-05	4.08E-05	4.22E-05
1	2027	Taxiways	Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	15.71474	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000125	0.000405	0.960097	2.54E-06	2.93E-05	2.85E-05	1.98E-05
1	2027	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	110.5867	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001173	0.005473	23.16459	6.11E-05	0.000332	0.000322	0.000451
1	2027	Taxiways	Subbase P	Pickup Truck	Off-highw	Diesel	600	0.59	15.71474	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000167	0.000778	3.291766	8.69E-06	4.72E-05	4.58E-05	6.41E-05
1	2027	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	15.312	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000169	0.000959	0.593636	1.58E-06	3.06E-05	2.97E-05	1.5E-05
1	2027	Taxiways	Topsoil Pla	Dozer	Crawler Tr	Diesel	175	0.59	21.30933	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000169	0.000549	1.301901	3.45E-06	3.98E-05	3.86E-05	2.69E-05
1	2027	Taxiways	Topsoil Pla	Dump Truck	Off-highw	Diesel	600	0.59	21.30933	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000226	0.001055	4.463667	1.18E-05	6.4E-05	6.21E-05	8.69E-05
1	2027	Taxiways	Topsoil Pla	Pickup Truck	Off-highw	Diesel	600	0.59	21.30933	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000226	0.001055	4.463667	1.18E-05	6.4E-05	6.21E-05	8.69E-05
2	2027	Taxiways	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	31.8615	0.083087	0.250139	536.7939	0.001426	0.020077	0.019475	0.012961	0.000301	0.000907	1.946572	5.17E-06	7.28E-05	7.06E-05	4.7E-05
2	2027	Taxiways	Asphalt Pl	Dump Truck	Off-highw	Diesel	600	0.59	114.7516	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001217	0.00568	24.03702	6.34E-05	0.000345	0.000334	0.000468
2	2027	Taxiways	Asphalt Pl	Other General Equipment	Other Con	Diesel	175	0.43	63.723	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000887	0.002648	2.837132	7.71E-06	0.000216	0.000209	0.000153
2	2027	Taxiways	Asphalt Pl	Pickup Truck	Off-highw	Diesel	600	0.59	31.8615	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000338	0.001577	6.67403	1.76E-05	9.57E-05	9.29E-05	0.00013
2	2027	Taxiways	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	31.8615	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000351	0.001995	1.23525	3.29E-06	6.37E-05	6.18E-05	3.12E-05
2	2027	Taxiways	Asphalt Pl	Skid Steer Loader	Skid Steer	Diesel	75	0.21	31.8615	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.00142	0.002044	0.38422	1.17E-06	0.000186	0.000181	0.000265
2	2027	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	40.78272	1.489019	3.762538	595.1512	0.002188	0.170468	0.165354	0.351665	0.000987	0.002495	0.394641	1.45E-06	0.000113	0.00011	0.000233
2	2027	Taxiways	Clearing a	Chain Saw	Other Con	Diesel	11	0.7	82.8	2.461074	4.183513	593.7557	0.002183	0.238964	0.231795	0.837797	0.00173	0.00294	0.417288	1.53E-06	0.000168	0.000163	0.000589
2	2027	Taxiways	Clearing a	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	82.8	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.001529	0.004634	2.339337	6.36E-06	0.000233	0.000226	0.000137
2	2027	Taxiways	Clearing a	Pickup Truck	Off-highw	Diesel	600	0.59	110.4	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001171	0.005464	23.12549	6.1E-05	0.000332	0.000322	0.00045
2	2027	Taxiways	Concrete F	Air Compressor	Other Con	Diesel	100	0.43	84.964	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.001569	0.004755	2.400477	6.52E-06	0.000239	0.000232	0.000141
2	2027	Taxiways	Concrete F	Concrete Saws	Other Con	Diesel	40	0.59	84.964	0.281744	2.531371	595.8804	0.00157	0.021132	0.020498	0.092708	0.000623	0.005595	1.317081	3.47E-06	4.67E-05	4.53E-05	0.000205
2	2027	Taxiways	Concrete F	Concrete Truck	Off-highw	Diesel	600	0.59	354.0167	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.003754	0.017522	74.15588	0.000196	0.001064	0.001032	0.001444
2	2027	Taxiways	Concrete F	Other General Equipment	Other Con	Diesel	175	0.43	169.928	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.002366	0.007061	7.565686	2.06E-05	0.000575	0.000558	0.000407
2	2027	Taxiways	Concrete F	Pickup Truck	Off-highw	Diesel	600	0.59	254.892	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.002703	0.012616	53.39224	0.000141	0.000766	0.000743	0.00104
2	2027	Taxiways	Concrete F	Rubber Tired Loader	Tractors/L	Diesel	175	0.59	84.964	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.006339	0.011878	6.054137	1.73E-05	0.001463	0.001419	0.00159
2	2027	Taxiways	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	84.964	0.083087	0.250139	536.7939	0.001426	0.020077	0.019475	0.012961	0.000803	0.002419	5.190857	1.38E-05	0.000194	0.000188	0.000125
2	2027	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	84.964	1.489019	3.762538	595.1512	0.002188	0.170468	0.165354	0.351665	0.002057	0.005198	0.822168	3.02E-06	0.000235	0.000228	0.000486
2	2027	Taxiways	Drainage -	Dozer	Crawler Tr	Diesel	175	0.59	229.952	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.001823	0.005923	14.049	3.72E-05	0.000429	0.000417	0.00029
2	2027	Taxiways	Drainage -	Dump Truck	Off-highw	Diesel	600	0.59	229.952	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.002438	0.011381	48.16805	0.000127	0.000691	0.00067	0.000938
2	2027	Taxiways	Drainage -	Excavator	Excavators	Diesel	175	0.59	229.952	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	0.001559	0.00513	14.04913	3.71E-05	0.00036	0.000349	0.000253
2	2027	Taxiways	Drainage -	Loader	Tractors/L	Diesel	175	0.59	229.952	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.017157	0.032147	16.3853	4.68E-05	0.00396	0.003841	0.004303
2	2027	Taxiways	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	229.952	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.003201	0.009555	10.23813	2.78E-05	0.000779	0.000755	0.000551
2	2027	Taxiways	Drainage -	Pickup Truck	Off-highw	Diesel	600	0.59	229.952	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.002438	0.011381	48.16805	0.000127	0.000691	0.00067	0.000938
2	2027	Taxiways	Drainage -	Roller	Rollers100	Diesel	100	0.59	229.952	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.002535	0.0144	8.915089	2.37E-05	0.00046	0.000446	0.000225
2	2027	Taxiways	Drainage -	Dump Truck	Off-highw	Diesel	600	0.59	127.7511	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001355	0.006323	26.76003	7.06E-05	0.000384	0.000372	0.000521
2	2027	Taxiways	Drainage -	Loader	Tractors/L	Diesel	175	0.59	127.7511	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.009532	0.01786	9.102946	2.6E-05	0.0022	0.002134	0.00239
2	2027	Taxiways	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	127.7511	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.001779	0.005308	5.687849	1.55E-05	0.000433	0.00042	0.000306
2	2027	Taxiways	Drainage -	Pickup Truck	Off-highw	Diesel	600	0.59	127.7511	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001355	0.006323	26.76003	7.06E-05	0.000384	0.000372	0.000521
2	2027	Taxiways	Drainage -	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	127.7511	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.004722	0.005642	2.056293	5.88E-06	0.000671	0.000651	0.000674
2	2027	Taxiways	Dust Contr	Water Truck	Off-highw	Diesel	600	0.59	2880	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.030539	0.142543	603.2737	0.001592	0.008653	0.008393	0.011749
2	2027	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	141.6067	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.001122	0.003647	8.651509	2.29E-05	0.000264	0.000257	0.000179
2	2027	Taxiways	Excavation	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	141.6067	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001502	0.007009	29.66235	7.83E-05	0.000425	0.000413	0.000578
2	2027	Taxiways	Excavation	Pickup Truck	Off-highw	Diesel	600	0.59	141.6067	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001502	0.007009	29.66235	7.83E-05	0.000425	0.000413	0.000578
2	2027	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	65.35692	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000721	0.004093	2.533845	6.75E-06	0.000131	0.000127	6.4E-05
2	2027	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	106.205	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000842	0.002735	6.488632	1.72E-05	0.000198	0.000192	0.000134
2	2027	Taxiways	Excavation	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	283.2133	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.003003	0.014017	59.32471	0.000157	0.000851	0.000825	0.001155
2	2027	Taxiways	Excavation	Excavator	Excavators	Diesel	175	0.59	84.964	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	0.000576	0.001896	5.190956	1.37E-05	0.000133	0.000129	9.34E-05
2	2027	Taxiways	Excavation	Pickup Truck	Off-highw	Diesel	600	0.59	84.964	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000901	0.004205	17.79741	4.7E-05	0.000255	0.000248	0.000347
2	2027	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	84.964	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000937	0.00532	3.293999	8.77E-06	0.00017	0.000165	8.32E-05
2	2027	Taxiways	Excavation	Scraper	Scrapers6	Diesel	600	0.59	106.205	0.131479	0.345281	536.7629	0.001454	0.025045	0.024294	0.023055	0.005449	0.01431	22.24525	6.03E-05	0.001038	0.001007	0.000955
2	2027	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	39.98306	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000317	0.00103	2.442779	6.47E-06	7.47E-05	7.24E-05	5.04E-05
2	2027	Taxiways	Fencing	Concrete Truck	Off-highw	Diesel	600	0.59	79.73333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000845	0.003946	16.70174	4.41E-05	0.00024	0.000232	0.000325
2	2027	Taxiways	Fencing	Dump Truck	Off-highw	Diesel	600	0.59	318.9333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.003382	0.015785	66.80698	0.000176	0.000958	0.000929	0.001301
2	2027	Taxiways	Fencing	Other General Equipment	Other Con	Diesel	175	0.43	318.9333	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.00444	0.013252	14.19983	3.86E-05	0.00108	0.001048	0.000765
2	2027	Taxiways	Fencing	Pickup Truck	Off-highw	Diesel	600	0.59	318.9333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.003382	0.015785	66.80698	0.000176	0.000958	0.000929	0.001301
2	2027	Taxiways	Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	318.9333	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.014219	0.020461	3.846036	1.17E-05	0.001865	0.001809	0.002657
2	2027	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	318.9333	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.011788	0.014085	5.133578	1.47E-05	0.001675	0.001625	0.001683
2	2027	Taxiways	Grading	Dozer	Crawler Tr	Diesel	175	0.59	33.5011	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000266	0.000863	2.046761	5.42E-06	6.26E-05	6.07E-05	4.22E-05
2	2027	Taxiways	Grading	Grader	Graders30	Diesel	300	0.59	33.5011	0.032003	0.140888	536.7963	0.001419	0.008755	0.008492	0.011426	0.000209	0.000921	3.508717	9.27E-06	5.72E-05	5.55E-05	7.47E-05
2	2027	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	33.5011	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000369	0.002098	1.298816	3.46E-06	6.7E-05	6.5E-05	3.28E-05
2	2027	Taxiways	Hydroseec	Hydroseeder	Other Con	Diesel	600	0.59	30.1812	0.400345	0.911359	536.6653	0.001534	0.064774	0.062831	0.056727	0.004715	0.010733	6.320477	1.81E-05	0.000763	0.00074	0.000668
2	2027	Taxiways	Hydroseec	Off-Road Truck	Off-highw	Diesel	600	0.59	30.1812	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00032	0.001494	6.322057	1.67E-05	9.07E-05	8.8E-05	0.000123
2	2027	Taxiways	Lighting	Dump Truck	Off-highw	Diesel	600	0.59	96.10667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001019	0.004757	20.13147	5.31E-05	0.000289	0.00028	0.000392
2	2027	Taxiways	Lighting	Loader	Tractors/L	Diesel	175	0.59	96.10667	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.007171	0.013436	6.848111	1.96E-05	0.001655	0.001605	0.001798
2	2027	Taxiways	Lighting	Other General Equipment	Other Con	Diesel	175	0.43	96.10667	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.001338	0.003993	4.278947	1.16E-05	0.000325	0.000316	0.00023
2	2027	Taxiways	Lighting	Pickup Truck	Off-highw	Diesel	600	0.59	96.10667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001019	0.004757	20.13147	5.31E-05	0.000289	0.00028	0.000392
2	2027	Taxiways	Lighting	Skid Steer Loader	Skid Steer	Diesel	75	0.21	96.10667	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.004285	0.006166	1.158956	3.53E-06	0.000562	0.000545	0.000801
2	2027	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	96.10667	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.003552	0.004244	1.546941	4.43E-06	0.000505	0.00049	0.000507
2	2027	Taxiways	Markings	Flatbed Truck	Off-highw	Diesel	600	0.59	524.8731	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.005566	0.025978	109.9452	0.00029	0.001577	0.00153	0.002141
2	2027	Taxiways	Markings	Other General Equipment	Other Con	Diesel	175	0.43	524.8731	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.007307	0.021809	23.36887	6.35E-05	0.001777	0.001724	0.001259
2	2027	Taxiways	Markings	Pickup Truck	Off-highw	Diesel	600	0.59	524.8731	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.005566	0.025978	109.9452	0.00029	0.001577	0.00153	0.002141
2	2027	Taxiways	Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	27.6	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000384	0.001147	1.228832	3.34E-06	9.35E-05	9.07E-05	6.62E-05
2	2027	Taxiways	Soil Erosio	Pickup Truck	Off-highw	Diesel	600	0.59	55.2	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000585	0.002732	11.56275	3.05E-05	0.000166	0.000161	0.000225
2	2027	Taxiways	Soil Erosio	Pumps	Other Con	Diesel	11	0.43	27.6	2.461074	4.183513	593.7557	0.002183	0.238964	0.231795	0.837797	0.000354	0.000602	0.085445	3.14E-07	3.44E-05	3.34E-05	0.000121
2	2027	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	27.6	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.00102	0.001219	0.444252	1.27E-06	0.000145	0.000141	0.000146
2	2027	Taxiways	Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	53.66147	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000425	0.001382	3.278466	8.68E-06	0.0001	9.72E-05	6.77E-05
2	2027	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	377.6178	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.004004	0.01869	79.09961	0.000209	0.001135	0.0011	0.00154
2	2027	Taxiways	Subbase P	Pickup Truck	Off-highw	Diesel	600	0.59	53.66147	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000569	0.002656	11.24047	2.97E-05	0.000161	0.000156	0.000219
2	2027	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	52.28554	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000576	0.003274	2.027076	5.4E-06	0.000105	0.000101	5.12E-05
2	2027	Taxiways	Topsoil Pla	Dozer	Crawler Tr	Diesel	175	0.59	74.44667	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.00059	0.001917	4.548345	1.2E-05	0.000139	0.000135	9.39E-05
2	2027	Taxiways	Topsoil Pla	Dump Truck	Off-highw	Diesel	600	0.59	74.44667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000789	0.003685	15.59435	4.11E-05	0.000224	0.000217	0.000304
2	2027	Taxiways	Topsoil Pla	Pickup Truck	Off-highw	Diesel	600	0.59	74.44667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000789	0.003685	15.59435	4.11E-05	0.000224	0.000217	0.000304
3	2027	Demolitio	Concrete D	Excavator with Bucket	Excavators	Diesel	175	0.59	123.0507	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	0.000834	0.002745	7.517897	1.99E-05	0.000193	0.000187	0.000135
3	2027	Demolitio	Concrete D	Excavator with Hoe Ram	Excavators	Diesel	175	0.59	123.0507	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	0.000834	0.002745	7.517897	1.99E-05	0.000193	0.000187	0.000135
3	2027	Demolitio	Concrete D	Pickup Truck	Off-highw	Diesel	600	0.59	246.1013	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00261	0.012181	51.55085	0.000136	0.000739	0.000717	0.001004

4	2027	Apron (GA	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	10.6915	0.083087	0.250139	536.7939	0.001426	0.020077	0.019475	0.012961	0.000101	0.000304	0.653195	1.74E-06	2.44E-05	2.37E-05	1.58E-05
4	2027	Apron (GA	Asphalt Pl	Dump Truck	Off-highwa	Diesel	600	0.59	38.50625	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000408	0.001906	8.065905	2.13E-05	0.000116	0.000112	0.000157
4	2027	Apron (GA	Asphalt Pl	Other General Equipment	Other Con	Diesel	175	0.43	21.383	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000298	0.000888	0.952033	2.59E-06	7.24E-05	7.02E-05	5.13E-05
4	2027	Apron (GA	Asphalt Pl	Pickup Truck	Off-highwa	Diesel	600	0.59	10.6915	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000113	0.000529	2.239549	5.91E-06	3.21E-05	3.12E-05	4.36E-05
4	2027	Apron (GA	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	10.6915	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000118	0.00067	0.414502	1.1E-06	2.14E-05	2.07E-05	1.05E-05
4	2027	Apron (GA	Asphalt Pl	Skid Steer Loader	Skid Steer	Diesel	75	0.21	10.6915	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.000477	0.000686	0.128929	3.92E-07	6.25E-05	6.06E-05	8.91E-05
4	2027	Apron (GA	Asphalt Pl	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	13.68512	1.489019	3.762538	595.1512	0.002188	0.170468	0.165354	0.351665	0.000331	0.000837	0.132426	4.87E-07	3.79E-05	3.68E-05	7.82E-05
4	2027	Apron (GA	Clearing ar	Chain Saw	Other Con	Diesel	11	0.7	22.8	2.461074	4.183513	593.7557	0.002183	0.238964	0.231795	0.837797	0.000476	0.00081	0.114905	4.22E-07	4.62E-05	4.49E-05	0.000162
4	2027	Apron (GA	Clearing ar	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	22.8	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.000421	0.001276	0.644165	1.75E-06	6.43E-05	6.23E-05	3.78E-05
4	2027	Apron (GA	Clearing ar	Pickup Truck	Off-highwa	Diesel	600	0.59	30.4	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000322	0.001505	6.367889	1.68E-05	9.13E-05	8.86E-05	0.000124
4	2027	Apron (GA	Concrete F	Air Compressor	Other Con	Diesel	100	0.43	28.5104	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.000527	0.001596	0.805501	2.19E-06	8.03E-05	7.79E-05	4.72E-05
4	2027	Apron (GA	Concrete F	Concrete Saws	Other Con	Diesel	40	0.59	28.5104	0.281744	2.531371	595.8804	0.00157	0.021132	0.020498	0.092708	0.000209	0.001877	0.441958	1.16E-06	1.57E-05	1.52E-05	6.88E-05
4	2027	Apron (GA	Concrete F	Concrete Truck	Off-highwa	Diesel	600	0.59	118.7933	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00126	0.00588	24.88364	6.57E-05	0.000357	0.000346	0.000485
4	2027	Apron (GA	Concrete F	Other General Equipment	Other Con	Diesel	175	0.43	57.0208	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000794	0.002369	2.538731	6.9E-06	0.000193	0.000187	0.000137
4	2027	Apron (GA	Concrete F	Pickup Truck	Off-highwa	Diesel	600	0.59	85.5312	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000907	0.004233	17.91622	4.73E-05	0.000257	0.000249	0.000349
4	2027	Apron (GA	Concrete F	Rubber Tired Loader	Tractors/L	Diesel	175	0.59	28.5104	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.002127	0.003986	2.031518	5.81E-06	0.000491	0.000476	0.000533
4	2027	Apron (GA	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	28.5104	0.083087	0.250139	536.7939	0.001426	0.020077	0.019475	0.012961	0.00027	0.000812	1.741837	4.63E-06	6.51E-05	6.32E-05	4.21E-05
4	2027	Apron (GA	Concrete F	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	28.5104	1.489019	3.762538	595.1512	0.002188	0.170468	0.165354	0.351665	0.00069	0.001744	0.275886	1.01E-06	7.9E-05	7.67E-05	0.000163
4	2027	Apron (GA	Drainage -	Dozer	Crawler Tr	Diesel	175	0.59	11.328	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	8.98E-05	0.000292	0.692088	1.83E-06	2.12E-05	2.05E-05	1.43E-05
4	2027	Apron (GA	Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	11.328	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00012	0.000561	2.372877	6.26E-06	3.4E-05	3.3E-05	4.62E-05
4	2027	Apron (GA	Drainage -	Excavator	Excavators	Diesel	175	0.59	11.328	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	7.68E-05	0.000253	0.692095	1.83E-06	1.77E-05	1.72E-05	1.25E-05
4	2027	Apron (GA	Drainage -	Loader	Tractors/L	Diesel	175	0.59	11.328	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.000845	0.001584	0.80718	2.31E-06	0.000195	0.000189	0.000212
4	2027	Apron (GA	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	11.328	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000158	0.000471	0.504355	1.37E-06	3.84E-05	3.72E-05	2.72E-05
4	2027	Apron (GA	Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	11.328	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00012	0.000561	2.372877	6.26E-06	3.4E-05	3.3E-05	4.62E-05
4	2027	Apron (GA	Drainage -	Roller	Rollers100	Diesel	100	0.59	11.328	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000125	0.000709	0.439179	1.17E-06	2.27E-05	2.2E-05	1.11E-05
4	2027	Apron (GA	Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	6.293333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	6.67E-05	0.000311	1.318265	3.48E-06	1.89E-05	1.83E-05	2.57E-05
4	2027	Apron (GA	Drainage -	Loader	Tractors/L	Diesel	175	0.59	6.293333	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.00047	0.00088	0.448433	1.28E-06	0.000108	0.000105	0.000118
4	2027	Apron (GA	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	6.293333	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	8.76E-05	0.000261	0.280197	7.61E-07	2.13E-05	2.07E-05	1.51E-05
4	2027	Apron (GA	Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	6.293333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	6.67E-05	0.000311	1.318265	3.48E-06	1.89E-05	1.83E-05	2.57E-05
4	2027	Apron (GA	Drainage -	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	6.293333	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.000233	0.000278	0.101298	2.9E-07	3.31E-05	3.21E-05	3.32E-05
4	2027	Apron (GA	Dust Contr	Water Truck	Off-highwa	Diesel	600	0.59	2880	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.030539	0.142543	603.2737	0.001592	0.008653	0.008393	0.011749
4	2027	Apron (GA	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	47.51733	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000377	0.001224	2.903088	7.69E-06	8.87E-05	8.61E-05	5.99E-05
4	2027	Apron (GA	Excavation	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	47.51733	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000504	0.002352	9.953457	2.63E-05	0.000143	0.000138	0.000194
4	2027	Apron (GA	Excavation	Pickup Truck	Off-highwa	Diesel	600	0.59	47.51733	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000504	0.002352	9.953457	2.63E-05	0.000143	0.000138	0.000194
4	2027	Apron (GA	Excavation	Roller	Rollers100	Diesel	100	0.59	21.93108	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000242	0.001373	0.850254	2.26E-06	4.39E-05	4.25E-05	2.15E-05
4	2027	Apron (GA	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	35.638	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000282	0.000918	2.177316	5.76E-06	6.66E-05	6.46E-05	4.49E-05
4	2027	Apron (GA	Excavation	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	95.03467	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001008	0.004704	19.90691	5.25E-05	0.000286	0.000277	0.000388
4	2027	Apron (GA	Excavation	Excavator	Excavators	Diesel	175	0.59	28.5104	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	0.000193	0.000636	1.74187	4.6E-06	4.46E-05	4.33E-05	3.14E-05
4	2027	Apron (GA	Excavation	Pickup Truck	Off-highwa	Diesel	600	0.59	28.5104	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000302	0.001411	5.972074	1.58E-05	8.57E-05	8.31E-05	0.000116
4	2027	Apron (GA	Excavation	Roller	Rollers100	Diesel	100	0.59	28.5104	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000314	0.001785	1.10533	2.94E-06	5.7E-05	5.53E-05	2.79E-05
4	2027	Apron (GA	Excavation	Scraper	Scrapers6(	Diesel	600	0.59	35.638	0.131479	0.345281	536.7629	0.001454	0.025045	0.024294	0.023055	0.001828	0.004802	7.464584	2.02E-05	0.000348	0.000338	0.000321
4	2027	Apron (GA	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	13.41678	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000106	0.000346	0.819703	2.17E-06	2.51E-05	2.43E-05	1.69E-05
4	2027	Apron (GA	Fencing	Concrete Truck	Off-highwa	Diesel	600	0.59	3.822222	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	4.05E-05	0.000189	0.800641	2.11E-06	1.15E-05	1.11E-05	1.56E-05
4	2027	Apron (GA	Fencing	Dump Truck	Off-highwa	Diesel	600	0.59	15.28889	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000162	0.000757	3.202564	8.45E-06	4.59E-05	4.46E-05	6.24E-05
4	2027	Apron (GA	Fencing	Other General Equipment	Other Con	Diesel	175	0.43	15.28889	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000213	0.000635	0.680706	1.85E-06	5.18E-05	5.02E-05	3.67E-05
4	2027	Apron (GA	Fencing	Pickup Truck	Off-highwa	Diesel	600	0.59	15.28889	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000162	0.000757	3.202564	8.45E-06	4.59E-05	4.46E-05	6.24E-05
4	2027	Apron (GA	Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	15.28889	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.000682	0.000981	0.18437	5.61E-07	8.94E-05	8.67E-05	0.000127
4	2027	Apron (GA	Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	15.28889	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.000565	0.000675	0.246091	7.04E-07	8.03E-05	7.79E-05	8.07E-05
4	2027	Apron (GA	Grading	Dozer	Crawler Tr	Diesel	175	0.59	9.1948	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	7.29E-05	0.000237	0.56176	1.49E-06	1.72E-05	1.67E-05	1.16E-05
4	2027	Apron (GA	Grading	Grader	Graders30	Diesel	300	0.59	9.1948	0.032003	0.140888	536.7963	0.001419	0.008755	0.008492	0.011426	5.74E-05	0.000253	0.963012	2.55E-06	1.57E-05	1.52E-05	2.05E-05
4	2027	Apron (GA	Grading	Roller	Rollers100	Diesel	100	0.59	9.1948	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000101	0.000576	0.356476	9.49E-07	1.84E-05	1.78E-05	9E-06
4	2027	Apron (GA	Hydroseec	Hydroseeder	Other Con	Diesel	600	0.59	8.2836	0.400345	0.911359	536.6653	0.001534	0.064774	0.062831	0.056727	0.001294	0.002946	1.734732	4.96E-06	0.000209	0.000203	0.000183
4	2027	Apron (GA	Hydroseec	Off-Road Truck	Off-highwa	Diesel	600	0.59	8.2836	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	8.78E-05	0.00041	1.735166	4.58E-06	2.49E-05	2.41E-05	3.38E-05
4	2027	Apron (GA	Lighting	Dump Truck	Off-highwa	Diesel	600	0.59	7.573333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	8.03E-05	0.000375	1.586386	4.19E-06	2.28E-05	2.21E-05	3.09E-05
4	2027	Apron (GA	Lighting	Loader	Tractors/L	Diesel	175	0.59	7.573333	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.000565	0.001059	0.53964	1.54E-06	0.00013	0.000127	0.000142
4	2027	Apron (GA	Lighting	Other General Equipment	Other Con	Diesel	175	0.43	7.573333	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000105	0.000315	0.337187	9.16E-07	2.56E-05	2.49E-05	1.82E-05
4	2027	Apron (GA	Lighting	Pickup Truck	Off-highwa	Diesel	600	0.59	7.573333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	8.03E-05	0.000375	1.586386	4.19E-06	2.28E-05	2.21E-05	3.09E-05
4	2027	Apron (GA	Lighting	Skid Steer Loader	Skid Steer	Diesel	75	0.21	7.573333	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.000338	0.000486	0.091327	2.78E-07	4.43E-05	4.3E-05	6.31E-05
4	2027	Apron (GA	Lighting	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	7.573333	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.00028	0.000334	0.121901	3.49E-07	3.98E-05	3.86E-05	4E-05
4	2027	Apron (GA	Markings	Flatbed Truck	Off-highwa	Diesel	600	0.59	176.128	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001868	0.008717	36.89354	9.74E-05	0.000529	0.000513	0.000719
4	2027	Apron (GA	Markings	Other General Equipment	Other Con	Diesel	175	0.43	176.128	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.002452	0.007318	7.841728	2.13E-05	0.000596	0.000579	0.000422
4	2027	Apron (GA	Markings	Pickup Truck	Off-highwa	Diesel	600	0.59	176.128	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001868	0.008717	36.89354	9.74E-05	0.000529	0.000513	0.000719
4	2027	Apron (GA	Sealing/Fu	Distributing Tanker	Off-highwa	Diesel	600	0.59	22.80853	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000242	0.001129	4.777704	1.26E-05	6.85E-05	6.65E-05	9.3E-05
4	2027	Apron (GA	Sealing/Fu	Other General Equipment	Other Con	Diesel	175	0.43	22.80853	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000318	0.000948	1.015502	2.76E-06	7.72E-05	7.49E-05	5.47E-05
4	2027	Apron (GA	Sealing/Fu	Pickup Truck	Off-highwa	Diesel	600	0.59	22.80853	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000242	0.001129	4.777704	1.26E-05	6.85E-05	6.65E-05	9.3E-05
4	2027	Apron (GA	Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	7.6	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000106	0.000316	0.338374	9.19E-07	2.57E-05	2.5E-05	1.82E-05
4	2027	Apron (GA	Soil Erosio	Pickup Truck	Off-highwa	Diesel	600	0.59	15.2	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000161	0.000752	3.183945	8.4E-06	4.57E-05	4.43E-05	6.2E-05
4	2027	Apron (GA	Soil Erosio	Pumps	Other Con	Diesel	11	0.43	7.6	2.461074	4.183513	593.7557	0.002183	0.238964	0.231795	0.837797	9.75E-05	0.000166	0.023528	8.65E-08	9.47E-06	9.19E-06	3.32E-05
4	2027	Apron (GA	Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	7.6	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.000281	0.000336	0.12233	3.5E-07	3.99E-05	3.87E-05	4.01E-05
4	2027	Apron (GA	Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	18.00674	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000143	0.000464	1.100128	2.91E-06	3.36E-05	3.26E-05	2.27E-05
4	2027	Apron (GA	Subbase P	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	126.7156	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001344	0.006272	26.54311	7E-05	0.000381	0.000369	0.000517
4	2027	Apron (GA	Subbase P	Pickup Truck	Off-highwa	Diesel	600	0.59	18.00674	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000191	0.000891	3.771872	9.95E-06	5.41E-05	5.25E-05	7.35E-05
4	2027	Apron (GA	Subbase P	Roller	Rollers100	Diesel	100	0.59	17.54523	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000193	0.001099	0.680217	1.81E-06	3.51E-05	3.4E-05	1.72E-05
4	2027	Apron (GA	Topsoil Pla	Dozer	Crawler Tr	Diesel	175	0.59	20.43333	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000162	0.000526	1.248382	3.31E-06	3.82E-05	3.7E-05	2.58E-05
4	2027	Apron (GA	Topsoil Pla	Dump Truck	Off-highwa	Diesel	600	0.59	20.43333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000217	0.001011	4.280171	1.13E-05	6.14E-05	5.95E-05	8.34E-05
4	2027	Apron (GA	Topsoil Pla	Pickup Truck	Off-highwa	Diesel	600	0.59	20.43333	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000217	0.001011	4.280171	1.13E-05	6.14E-05	5.95E-05	8.34E-05
5	2027	Building - :	Concrete F	Backhoe	Tractors/L	Diesel	100	0.21	320	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.011827	0.014132	5.150748	1.47E-05	0.001681	0.00163	0.001688
5	2027	Building - :	Concrete F	Concrete Ready Mix Trucks	Off-highwa	Diesel	600	0.59	60	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000636	0.00297	12.5682	3.32E-05	0.00018	0.000175	0.000245
5	2027	Building - :	Concrete F	Fork Truck	Other Con	Diesel	100	0.59	320	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.00811	0.024575	12.40498	3.37E-05	0.001237	0.0012	0.000728
5	2027	Building - :	Concrete F	Tool Truck	Off-highwa	Diesel	600	0.59	80	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000848	0.00396	16.7576	4.42E-05	0.00024	0.000233	0.000326
5	2027	Building - :	Concrete F	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	16	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00017	0.000792	3.351521	8.84E-06	4.81E-05	4.66E-05	6.53E-05
5	2027	Building - :	Constructi	Survey Crew Trucks	Off-highwa	Diesel	600	0.59	10	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000106	0.000495	2.0947	5.53E-06	3E-05	2.91E-05	4.08E-05
5	2027	Building - :	Constructi	Tractor Trailers Temp Fac.	Off-highwa	Diesel	600	0.59	4	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	4.24E-05	0.000198	0.83788	2.21E-06	1.2E-05	1.17E-05	1.63E-05
5	2027	Building - :	Exterior W	Fork Truck	Other Con	Diesel	100	0.59	240	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.006082	0.018431	9.303734	2.53E-05	0.000928	0.0009	0.000546

5	2027	Building -	Exterior W	Man Lift	Rough Ter	Diesel	75	0.21	240	0.350514	2.628267	595.9461	0.001613	0.036999	0.035889	0.069204	0.001461	0.010951	2.483164	6.72E-06	0.000154	0.00015	0.000288
5	2027	Building -	Exterior W	Tool Truck	Off-highwa	Diesel	600	0.59	60	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000636	0.00297	12.5682	3.32E-05	0.00018	0.000175	0.000245
5	2027	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	24	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000254	0.001188	5.027281	1.33E-05	7.21E-05	6.99E-05	9.79E-05
5	2027	Building -	Interior Bu	Fork Truck	Other Con	Diesel	100	0.59	960	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.024329	0.073725	37.21494	0.000101	0.003712	0.003601	0.002183
5	2027	Building -	Interior Bu	Man Lift	Rough Ter	Diesel	75	0.21	960	0.350514	2.628267	595.9461	0.001613	0.036999	0.035889	0.069204	0.005842	0.043805	9.932654	2.69E-05	0.000617	0.000598	0.001153
5	2027	Building -	Interior Bu	Tool Truck	Off-highwa	Diesel	600	0.59	120	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001272	0.005939	25.1364	6.63E-05	0.000361	0.00035	0.00049
5	2027	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	120	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.001272	0.005939	25.1364	6.63E-05	0.000361	0.00035	0.00049
5	2027	Building -	Roofing	High Lift	Rough Ter	Diesel	100	0.59	120	0.296993	1.083208	596.0803	0.001606	0.047198	0.045782	0.026655	0.002318	0.008454	4.652052	1.25E-05	0.000368	0.000357	0.000208
5	2027	Building -	Roofing	Man Lift (Fascia Construction)	Rough Ter	Diesel	75	0.21	120	0.350514	2.628267	595.9461	0.001613	0.036999	0.035889	0.069204	0.00073	0.005476	1.241582	3.36E-06	7.71E-05	7.48E-05	0.000144
5	2027	Building -	Roofing	Material Deliveries	Off-highwa	Diesel	600	0.59	8	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	8.48E-05	0.000396	1.67576	4.42E-06	2.4E-05	2.33E-05	3.26E-05
5	2027	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	12	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000127	0.000594	2.51364	6.63E-06	3.61E-05	3.5E-05	4.9E-05
5	2027	Building -	Security &	High Lift	Rough Ter	Diesel	100	0.59	320	0.296993	1.083208	596.0803	0.001606	0.047198	0.045782	0.026655	0.006181	0.022543	12.40547	3.34E-05	0.000982	0.000953	0.000555
5	2027	Building -	Security &	Tool Truck	Off-highwa	Diesel	600	0.59	80	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000848	0.00396	16.7576	4.42E-05	0.00024	0.000233	0.000326
5	2027	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.052989	0.225446	530.9934	0.001419	0.012453	0.01208	0.016841	0.001808	0.007694	18.1216	4.84E-05	0.000425	0.000412	0.000575
5	2027	Building -	Structural	Fork Truck	Other Con	Diesel	100	0.59	120	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.003041	0.009216	4.651867	1.26E-05	0.000464	0.00045	0.000273
5	2027	Building -	Structural	Tool Truck	Off-highwa	Diesel	600	0.59	60	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000636	0.00297	12.5682	3.32E-05	0.00018	0.000175	0.000245
5	2027	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highwa	Diesel	600	0.59	16	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.00017	0.000792	3.351521	8.84E-06	4.81E-05	4.66E-05	6.53E-05
6	2027	Access Ro	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	2.24775	0.083087	0.250139	536.7939	0.001426	0.020077	0.019475	0.012961	2.13E-05	6.4E-05	0.137326	3.65E-07	5.14E-06	4.98E-06	3.32E-06
6	2027	Access Ro	Asphalt Pl	Dump Truck	Off-highwa	Diesel	600	0.59	8.095442	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	8.58E-05	0.000401	1.695752	4.47E-06	2.43E-05	2.36E-05	3.3E-05
6	2027	Access Ro	Asphalt Pl	Other General Equipment	Other Con	Diesel	175	0.43	4.4955	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	6.26E-05	0.000187	0.200153	5.44E-07	1.52E-05	1.48E-05	1.08E-05
6	2027	Access Ro	Asphalt Pl	Pickup Truck	Off-highwa	Diesel	600	0.59	2.24775	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	2.38E-05	0.000111	0.470836	1.24E-06	6.75E-06	6.55E-06	9.17E-06
6	2027	Access Ro	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	2.24775	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	2.48E-05	0.000141	0.087144	2.32E-07	4.5E-06	4.36E-06	2.2E-06
6	2027	Access Ro	Asphalt Pl	Skid Steer Loader	Skid Steer	Diesel	75	0.21	2.24775	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.0001	0.000144	0.027106	8.25E-08	1.31E-05	1.28E-05	1.87E-05
6	2027	Access Ro	Asphalt Pl	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	2.87712	1.489019	3.762538	595.1512	0.002188	0.170468	0.165354	0.351665	6.97E-05	0.000176	0.027841	1.02E-07	7.97E-06	7.74E-06	1.65E-05
6	2027	Access Ro	Clearing ar	Chain Saw	Other Con	Diesel	11	0.7	6	2.461074	4.183513	593.7557	0.002183	0.238964	0.231795	0.837797	0.000125	0.000213	0.030238	1.11E-07	1.22E-05	1.18E-05	4.27E-05
6	2027	Access Ro	Clearing ar	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	6	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.000111	0.000336	0.169517	4.61E-07	1.69E-05	1.64E-05	9.94E-06
6	2027	Access Ro	Clearing ar	Pickup Truck	Off-highwa	Diesel	600	0.59	8	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	8.48E-05	0.000396	1.67576	4.42E-06	2.4E-05	2.33E-05	3.26E-05
6	2027	Access Ro	Concrete F	Air Compressor	Other Con	Diesel	100	0.43	5.9944	0.389666	1.180819	596.0566	0.00162	0.059454	0.05767	0.03496	0.000111	0.000336	0.169359	4.6E-07	1.69E-05	1.64E-05	9.93E-06
6	2027	Access Ro	Concrete F	Concrete Saws	Other Con	Diesel	40	0.59	5.9944	0.281744	2.531371	595.8804	0.00157	0.021132	0.020498	0.092708	4.39E-05	0.000395	0.092923	2.45E-07	3.3E-06	3.2E-06	1.45E-05
6	2027	Access Ro	Concrete F	Concrete Truck	Off-highwa	Diesel	600	0.59	24.97667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000265	0.001236	5.231863	1.38E-05	7.5E-05	7.28E-05	0.000102
6	2027	Access Ro	Concrete F	Other General Equipment	Other Con	Diesel	175	0.43	11.9888	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000167	0.000498	0.533776	1.45E-06	4.06E-05	3.94E-05	2.87E-05
6	2027	Access Ro	Concrete F	Pickup Truck	Off-highwa	Diesel	600	0.59	17.9832	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000191	0.00089	3.766942	9.94E-06	5.4E-05	5.24E-05	7.34E-05
6	2027	Access Ro	Concrete F	Rubber Tired Loader	Tractors/L	Diesel	175	0.59	5.9944	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.000447	0.000838	0.427133	1.22E-06	0.000103	0.0001	0.000112
6	2027	Access Ro	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	5.9944	0.083087	0.250139	536.7939	0.001426	0.020077	0.019475	0.012961	5.67E-05	0.000171	0.366227	9.73E-07	1.37E-05	1.33E-05	8.84E-06
6	2027	Access Ro	Concrete F	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	5.9944	1.489019	3.762538	595.1512	0.002188	0.170468	0.165354	0.351665	0.000145	0.000367	0.058006	2.13E-07	1.66E-05	1.61E-05	3.43E-05
6	2027	Access Ro	Curbing	Concrete Truck	Off-highwa	Diesel	600	0.59	21.6	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000229	0.001069	4.524553	1.19E-05	6.49E-05	6.29E-05	8.81E-05
6	2027	Access Ro	Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	21.6	0.083087	0.250139	536.7939	0.001426	0.020077	0.019475	0.012961	0.000204	0.000615	1.319647	3.51E-06	4.94E-05	4.79E-05	3.19E-05
6	2027	Access Ro	Curbing	Other General Equipment	Other Con	Diesel	175	0.43	21.6	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000301	0.000898	0.961694	2.61E-06	7.31E-05	7.09E-05	5.18E-05
6	2027	Access Ro	Curbing	Pickup Truck	Off-highwa	Diesel	600	0.59	21.6	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000229	0.001069	4.524553	1.19E-05	6.49E-05	6.29E-05	8.81E-05
6	2027	Access Ro	Drainage -	Dozer	Crawler Tr	Diesel	175	0.59	17.6	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	0.000139	0.000453	1.075278	2.85E-06	3.29E-05	3.19E-05	2.22E-05
6	2027	Access Ro	Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	17.6	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000187	0.000871	3.686673	9.73E-06	5.29E-05	5.13E-05	7.18E-05
6	2027	Access Ro	Drainage -	Excavator	Excavators	Diesel	175	0.59	17.6	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	0.000119	0.000393	1.075289	2.84E-06	2.76E-05	2.67E-05	1.94E-05
6	2027	Access Ro	Drainage -	Loader	Tractors/L	Diesel	175	0.59	17.6	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.001313	0.00246	1.254094	3.59E-06	0.000303	0.000294	0.000329
6	2027	Access Ro	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	17.6	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000245	0.000731	0.783603	2.13E-06	5.96E-05	5.78E-05	4.22E-05
6	2027	Access Ro	Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	17.6	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000187	0.000871	3.686673	9.73E-06	5.29E-05	5.13E-05	7.18E-05
6	2027	Access Ro	Drainage -	Roller	Rollers100	Diesel	100	0.59	17.6	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	0.000194	0.001102	0.682341	1.82E-06	3.52E-05	3.41E-05	1.72E-05
6	2027	Access Ro	Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	9.777778	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000104	0.000484	2.048151	5.4E-06	2.94E-05	2.85E-05	3.99E-05
6	2027	Access Ro	Drainage -	Loader	Tractors/L	Diesel	175	0.59	9.777778	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.00073	0.001367	0.696719	1.99E-06	0.000168	0.000163	0.000183
6	2027	Access Ro	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	9.777778	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000136	0.000406	0.435335	1.18E-06	3.31E-05	3.21E-05	2.34E-05
6	2027	Access Ro	Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	9.777778	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000104	0.000484	2.048151	5.4E-06	2.94E-05	2.85E-05	3.99E-05
6	2027	Access Ro	Drainage -	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	9.777778	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.000361	0.000432	0.157384	4.5E-07	5.14E-05	4.98E-05	5.16E-05
6	2027	Access Ro	Dust Contr	Water Truck	Off-highwa	Diesel	600	0.59	2160	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.022905	0.106907	452.4553	0.001194	0.006489	0.006295	0.008812
6	2027	Access Ro	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	9.990667	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	7.92E-05	0.000257	0.610383	1.62E-06	1.87E-05	1.81E-05	1.26E-05
6	2027	Access Ro	Excavation	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	9.990667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000106	0.000494	2.092745	5.52E-06	3E-05	2.91E-05	4.08E-05
6	2027	Access Ro	Excavation	Pickup Truck	Off-highwa	Diesel	600	0.59	9.990667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000106	0.000494	2.092745	5.52E-06	3E-05	2.91E-05	4.08E-05
6	2027	Access Ro	Excavation	Roller	Rollers100	Diesel	100	0.59	4.611077	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	5.08E-05	0.000289	0.178768	4.76E-07	9.22E-06	8.95E-06	4.51E-06
6	2027	Access Ro	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	7.493	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	5.94E-05	0.000193	0.457787	1.21E-06	1.4E-05	1.36E-05	9.45E-06
6	2027	Access Ro	Excavation	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	19.98133	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000212	0.000989	4.185491	1.1E-05	6E-05	5.82E-05	8.15E-05
6	2027	Access Ro	Excavation	Excavator	Excavators	Diesel	175	0.59	5.9944	0.059583	0.19603	536.8041	0.001417	0.013754	0.013341	0.009662	4.07E-05	0.000134	0.366234	9.67E-07	9.38E-06	9.1E-06	6.59E-06
6	2027	Access Ro	Excavation	Pickup Truck	Off-highwa	Diesel	600	0.59	5.9944	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	6.36E-05	0.000297	1.255647	3.31E-06	1.8E-05	1.75E-05	2.45E-05
6	2027	Access Ro	Excavation	Roller	Rollers100	Diesel	100	0.59	5.9944	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	6.61E-05	0.000375	0.232399	6.19E-07	1.2E-05	1.16E-05	5.87E-06
6	2027	Access Ro	Excavation	Scraper	Scrapers6(	Diesel	600	0.59	7.493	0.131479	0.345281	536.7629	0.001454	0.025045	0.024294	0.023055	0.000384	0.00101	1.569452	4.25E-06	7.32E-05	7.1E-05	6.74E-05
6	2027	Access Ro	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	2.820706	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	2.24E-05	7.27E-05	0.172332	4.56E-07	5.27E-06	5.11E-06	3.56E-06
6	2027	Access Ro	Fencing	Concrete Truck	Off-highwa	Diesel	600	0.59	6	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	6.36E-05	0.000297	1.25682	3.32E-06	1.8E-05	1.75E-05	2.45E-05
6	2027	Access Ro	Fencing	Dump Truck	Off-highwa	Diesel	600	0.59	24	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000254	0.001188	5.027281	1.33E-05	7.21E-05	6.99E-05	9.79E-05
6	2027	Access Ro	Fencing	Other General Equipment	Other Con	Diesel	175	0.43	24	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000334	0.000997	1.068549	2.9E-06	8.13E-05	7.88E-05	5.75E-05
6	2027	Access Ro	Fencing	Pickup Truck	Off-highwa	Diesel	600	0.59	24	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000254	0.001188	5.027281	1.33E-05	7.21E-05	6.99E-05	9.79E-05
6	2027	Access Ro	Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	24	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.00107	0.00154	0.289417	8.81E-07	0.00014	0.000136	0.0002
6	2027	Access Ro	Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	24	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.000887	0.00106	0.386306	1.11E-06	0.000126	0.000122	0.000127
6	2027	Access Ro	Grading	Dozer	Crawler Tr	Diesel	175	0.59	2.442	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	1.94E-05	6.29E-05	0.149195	3.95E-07	4.56E-06	4.42E-06	3.08E-06
6	2027	Access Ro	Grading	Grader	Graders30	Diesel	300	0.59	2.442	0.032003	0.140888	536.7963	0.001419	0.008755	0.008492	0.011426	1.52E-05	6.71E-05	0.255761	6.76E-07	4.17E-06	4.05E-06	5.44E-06
6	2027	Access Ro	Grading	Roller	Rollers100	Diesel	100	0.59	2.442	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	2.69E-05	0.000153	0.094675	2.52E-07	4.88E-06	4.74E-06	2.39E-06
6	2027	Access Ro	Hydroseec	Hydroseeder	Other Con	Diesel	600	0.59	2.2	0.400345	0.911359	536.6653	0.001534	0.064774	0.062831	0.056727	0.000344	0.000782	0.460719	1.32E-06	5.56E-05	5.39E-05	4.87E-05
6	2027	Access Ro	Hydroseec	Off-Road Truck	Off-highwa	Diesel	600	0.59	2.2	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	2.33E-05	0.000109	0.460834	1.22E-06	6.61E-06	6.41E-06	8.97E-06
6	2027	Access Ro	Markings	Flatbed Truck	Off-highwa	Diesel	600	0.59	37.02857	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000393	0.001833	7.756376	2.05E-05	0.000111	0.000108	0.000151
6	2027	Access Ro	Markings	Other General Equipment	Other Con	Diesel	175	0.43	37.02857	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.000516	0.001539	1.648619	4.48E-06	0.000125	0.000122	8.88E-05
6	2027	Access Ro	Markings	Pickup Truck	Off-highwa	Diesel	600	0.59	37.02857	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000393	0.001833	7.756376	2.05E-05	0.000111	0.000108	0.000151
6	2027	Access Ro	Sidewalks	Concrete Truck	Off-highwa	Diesel	600	0.59	43.2	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000458	0.002138	9.049105	2.39E-05	0.00013	0.000126	0.000176
6	2027	Access Ro	Sidewalks	Dump Truck	Off-highwa	Diesel	600	0.59	43.2	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000458	0.002138	9.049105	2.39E-05	0.00013	0.000126	0.000176
6	2027	Access Ro	Sidewalks	Pickup Truck	Off-highwa	Diesel	600	0.59	43.2	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000458	0.002138	9.049105	2.39E-05	0.00013	0.000126	0.000176
6	2027	Access Ro	Sidewalks	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	43.2	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.001597	0.001908	0.695351	1.99E-06	0.000227	0.00022	0.000228
6	2027	Access Ro	Sidewalks	Vibratory Compactor	Plate Com	Diesel	6	0.43	43.2	2.507486	4.187553	587.9918	0.002162	0.250004	0.242504	0.830112	0.000308	0.000514	0.072241	2.66E-07	3.07E-05	2.98E-05	0.000102
6	2027	Access Ro	Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	2	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	2.78E-05	8.31E-05	0.089046	2.42E-07	6.77E-06	6.57E-06	4.8E-06
6	2027	Access Ro	Soil Erosio	Pickup Truck	Off-highwa	Diesel	600	0.59	4	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	4.24E-05	0.000198	0.83788	2.21E-06	1.2E-05	1.17E-05	1.63E-05

6	2027	Access Ro	Soil Erosio	Pumps	Other Con	Diesel	11	0.43	2	2.461074	4.183513	593.7557	0.002183	0.238964	0.231795	0.837797	2.57E-05	4.36E-05	0.006192	2.28E-08	2.49E-06	2.42E-06	8.74E-06
6	2027	Access Ro	Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	2	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	7.39E-05	8.83E-05	0.032192	9.21E-08	1.05E-05	1.02E-05	1.06E-05
6	2027	Access Ro	Street Ligh	Dump Truck	Off-highw	Diesel	600	0.59	14.4	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000153	0.000713	3.016368	7.96E-06	4.33E-05	4.2E-05	5.87E-05
6	2027	Access Ro	Street Ligh	Loader	Tractors/L	Diesel	175	0.59	14.4	0.655566	1.228319	626.0668	0.00179	0.151301	0.146762	0.164407	0.001074	0.002013	1.026077	2.93E-06	0.000248	0.000241	0.000269
6	2027	Access Ro	Street Ligh	Other General Equipment	Other Con	Diesel	175	0.43	14.4	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0.0002	0.000598	0.64113	1.74E-06	4.88E-05	4.73E-05	3.45E-05
6	2027	Access Ro	Street Ligh	Pickup Truck	Off-highw	Diesel	600	0.59	14.4	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000153	0.000713	3.016368	7.96E-06	4.33E-05	4.2E-05	5.87E-05
6	2027	Access Ro	Street Ligh	Skid Steer Loader	Skid Steer	Diesel	75	0.21	14.4	2.567846	3.695226	694.5866	0.002114	0.33683	0.326726	0.479842	0.000642	0.000924	0.17365	5.28E-07	8.42E-05	8.17E-05	0.00012
6	2027	Access Ro	Street Ligh	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	14.4	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0.000532	0.000636	0.231784	6.63E-07	7.56E-05	7.34E-05	7.6E-05
6	2027	Access Ro	Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	3.785684	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	3E-05	9.75E-05	0.231288	6.12E-07	7.07E-06	6.86E-06	4.77E-06
6	2027	Access Ro	Subbase P	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	26.64	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0.000282	0.001319	5.580282	1.47E-05	8E-05	7.76E-05	0.000109
6	2027	Access Ro	Subbase P	Pickup Truck	Off-highw	Diesel	600	0.59	3.785684	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	4.01E-05	0.000187	0.792987	2.09E-06	1.14E-05	1.1E-05	1.54E-05
6	2027	Access Ro	Subbase P	Roller	Rollers10C	Diesel	100	0.59	3.688615	0.169521	0.962846	596.1149	0.001587	0.030751	0.029829	0.01505	4.07E-05	0.000231	0.143005	3.81E-07	7.38E-06	7.16E-06	3.61E-06
6	2027	Access Ro	Topsoil Pl	Dozer	Crawler Tr	Diesel	175	0.59	5.426667	0.069639	0.226304	536.7988	0.001421	0.016409	0.015917	0.011077	4.3E-05	0.00014	0.331544	8.78E-07	1.01E-05	9.83E-06	6.84E-06
6	2027	Access Ro	Topsoil Pl	Dump Truck	Off-highw	Diesel	600	0.59	5.426667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	5.75E-05	0.000269	1.136724	3E-06	1.63E-05	1.58E-05	2.21E-05
6	2027	Access Ro	Topsoil Pl	Pickup Truck	Off-highw	Diesel	600	0.59	5.426667	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	5.75E-05	0.000269	1.136724	3E-06	1.63E-05	1.58E-05	2.21E-05
6	2027	Access Ro	Tree Plant	Flatbed Truck	Off-highw	Diesel	600	0.59	0	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0	0	0	0	0	0	0
6	2027	Access Ro	Tree Plant	Other General Equipment	Other Con	Diesel	175	0.43	0	0.167834	0.50092	536.7479	0.001458	0.040823	0.039598	0.028906	0	0	0	0	0	0	0
6	2027	Access Ro	Tree Plant	Pickup Truck	Off-highw	Diesel	600	0.59	0	0.027174	0.126836	536.7995	0.001416	0.007699	0.007468	0.010454	0	0	0	0	0	0	0
6	2027	Access Ro	Tree Plant	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	0	1.596653	1.90781	695.3356	0.00199	0.226892	0.220085	0.227907	0	0	0	0	0	0	0
																Totals	**0.483455**	**1.66963**	**4601.215**	**0.012187**	**0.108542**	**0.105286**	**0.126745**

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

MOVES ONROAD Emissions Factors (g/mile)

																					7	10	13	11	12	14	5	8
Scenario ID	Year	Project	Equipmen	Equipment Category	On-road A	Lookup	Fuel	Roadway T	Round Trip	Distance f	Number o	Number o	Number o	Project Ler	Project Wi	Project Ar	Building H	Open Spac	Number o	Activity Ra	VMT	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4
1	2027	Taxiways	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	1868	36	--	--	--	--	--	976	2.134457	3.667581	0.005293	0.055088	0.050681	0.152434	1584.593	0.018588
1	2027	Taxiways	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	1868	36	--	--	--	--	--	15551	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
1	2027	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	1868	36	--	--	--	--	--	1382	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
1	2027	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	1868	36	--	--	--	--	--	8294	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
1	2027	Taxiways	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	101.2	101.2	258	--	--	--	--	--	--	--	783288	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448	0.006472
2	2027	Taxiways	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	7176	32	--	--	--	--	--	3332	2.134457	3.667581	0.005293	0.055088	0.050681	0.152434	1584.593	0.018588
2	2027	Taxiways	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	3	--	258	7176	32	--	--	--	--	--	53102	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
2	2027	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	7176	32	--	--	--	--	--	4720	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
2	2027	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	2	--	258	7176	32	--	--	--	--	--	28321	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
2	2027	Taxiways	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	356.4	356.4	258	--	--	--	--	--	--	--	2758536	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448	0.006472
3	2027	Demolitio	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	412	224	--	--	--	--	--	5697	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
3	2027	Demolitio	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	136.4	136.4	258	--	--	--	--	--	--	--	1055736	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448	0.006472
4	2027	Apron (GA	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	344	224	--	--	--	--	--	1118	2.134457	3.667581	0.005293	0.055088	0.050681	0.152434	1584.593	0.018588
4	2027	Apron (GA	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	344	224	--	--	--	--	--	17819	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
4	2027	Apron (GA	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	344	224	--	--	--	--	--	1584	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
4	2027	Apron (GA	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	344	224	--	--	--	--	--	9504	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
4	2027	Apron (GA	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	97.24	97.24	258	--	--	--	--	--	--	--	752638	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448	0.006472
5	2027	Building -	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--	2313	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
5	2027	Building -	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--	1233	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
5	2027	Building -	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	259.6	259.6	129	--	--	--	--	--	--	--	1004652	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448	0.006472
5	2027	Building -	Tractor Tr	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	0.0016	160	2.134457	3.667581	0.005293	0.055088	0.050681	0.152434	1584.593	0.018588
6	2027	Access Ro	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	540	30	--	--	--	--	--	235	2.134457	3.667581	0.005293	0.055088	0.050681	0.152434	1584.593	0.018588
6	2027	Access Ro	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	540	30	--	--	--	--	--	3746	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
6	2027	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	540	30	--	--	--	--	--	333	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
6	2027	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	540	30	--	--	--	--	--	1998	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169	0.014721
6	2027	Access Ro	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	86	86	193	--	--	--	--	--	--	--	497940	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448	0.006472

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive Sc	Number of Months	CO	NOx	SO2	PM10	VOC
1	2027	Taxiways	Asphalt Dr	12	0	0	0	0	0.05
1	2027	Taxiways	Asphalt St	12	0.1627	0.01015	0.00187	0.01115	0.00505
1	2027	Taxiways	Material N	12	0	0	0	0.02395	0
1	2027	Taxiways	Material N	12	0	0	0	0.07555	0
1	2027	Taxiways	Soil Handl	12	0	0	0	0.01905	0
1	2027	Taxiways	Unstabiliz	12	0	0	0	2.71E-08	0
2	2027	Taxiways	Asphalt Dr	12	0	0	0	0	0.05
2	2027	Taxiways	Asphalt St	12	0.5556	0.0347	0.0064	0.03805	0.0172
2	2027	Taxiways	Concrete N	12	0	0	0	0.1965	0
2	2027	Taxiways	Material N	12	0	0	0	0.0419	0
2	2027	Taxiways	Material N	12	0	0	0	0.1415	0
2	2027	Taxiways	Soil Handl	12	0	0	0	0.065	0
2	2027	Taxiways	Unstabiliz	12	0	0	0	9.27E-08	0
3	2027	Demolitio	Material N	12	0	0	0	0.006	0
3	2027	Demolitio	Material N	12	0	0	0	0.01975	0
3	2027	Demolitio	Soil Handl	12	0	0	0	0.0261	0
3	2027	Demolitio	Unstabiliz	12	0	0	0	3.72E-08	0
4	2027	Apron (GA	Asphalt Dr	12	0	0	0	0	0.05
4	2027	Apron (GA	Asphalt St	12	0.18645	0.01165	0.002142	0.01275	0.00575
4	2027	Apron (GA	Concrete N	12	0	0	0	0.06595	0
4	2027	Apron (GA	Material N	12	0	0	0	0.02395	0
4	2027	Apron (GA	Material N	12	0	0	0	0.0738	0
4	2027	Apron (GA	Soil Handl	12	0	0	0	0.0218	0
4	2027	Apron (GA	Unstabiliz	12	0	0	0	3.11E-08	0
5	2027	Building -	Concrete N	6	0	0	0	0.00855	0
5	2027	Building -	Material N	6	0	0	0	0.006	0

5	2027	Building -	Material N	6	0	0	0	0.01765	0
6	2027	Access Ro:	Asphalt Dr	9	0	0	0	0	0.05
6	2027	Access Ro:	Asphalt St	9	0.0392	0.002448	0.000451	0.002685	0.001214
6	2027	Access Ro:	Concrete N	9	0	0	0	0.01385	0
6	2027	Access Ro:	Material N	9	0	0	0	0.0179	0
6	2027	Access Ro:	Material N	9	0	0	0	0.05425	0
6	2027	Access Ro:	Soil Handli	9	0	0	0	0.004585	0
6	2027	Access Ro:	Unstabiliz	9	0	0	0	4.90E-09	0
			Totals		0.94395	0.058948	0.010862	0.98822	0.229214

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2026 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2026	NonRoad	0.483455	1.66963	0.012186554	0.108542	0.105286	0.126745	4601.215	--	--	
2026	OnRoad	19.41565	0.653072	0.015714888	0.018845	0.016829	0.436359	2454.445	0.051536	0.01311	
2026	Fugitive	0.94395	0.058948	0.010862	0.98822	--	0.229214	--	--	--	
2026	TOTAL	20.84305	2.381649	0.038763442	1.115606	0.122115	0.792318	7055.66	0.051536	0.01311	7060.578

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:
- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:
- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)

MOVES ONROAD Emissions (tpy)

9	7	10	13	11	12	14	5	8	9
N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
0.002802	0.002296	0.003946	5.69E-06	5.93E-05	5.45E-05	0.000164	1.704802	2E-05	3.02E-06
0.003286	0.020928	0.028372	5.64E-05	0.000413	0.00038	0.001421	16.85958	0.000252	5.63E-05
0.003286	0.00186	0.002521	5.01E-06	3.67E-05	3.37E-05	0.000126	1.498292	2.24E-05	5.01E-06
0.003286	0.011162	0.015132	3.01E-05	0.00022	0.000203	0.000758	8.991919	0.000135	3E-05
0.001659	2.193749	0.039509	0.001728	0.001642	0.001452	0.04814	260.1043	0.005588	0.001432
0.002802	0.00784	0.013471	1.94E-05	0.000202	0.000186	0.00056	5.820082	6.83E-05	1.03E-05
0.003286	0.071462	0.096882	0.000192	0.001409	0.001297	0.004852	57.5704	0.000862	0.000192
0.003286	0.006352	0.008611	1.71E-05	0.000125	0.000115	0.000431	5.117176	7.66E-05	1.71E-05
0.003286	0.038113	0.05167	0.000103	0.000752	0.000691	0.002588	30.70414	0.00046	0.000103
0.001659	7.725812	0.139142	0.006085	0.005781	0.005114	0.169536	916.0196	0.019681	0.005043
0.003286	0.007667	0.010394	2.07E-05	0.000151	0.000139	0.000521	6.176388	9.24E-05	2.06E-05
0.001659	2.956792	0.053252	0.002329	0.002213	0.001957	0.064884	350.5754	0.007532	0.00193
0.002802	0.00263	0.00452	6.52E-06	6.79E-05	6.25E-05	0.000188	1.952837	2.29E-05	3.45E-06
0.003286	0.02398	0.03251	6.46E-05	0.000473	0.000435	0.001628	19.31842	0.000289	6.45E-05
0.003286	0.002132	0.00289	5.74E-06	4.2E-05	3.87E-05	0.000145	1.71729	2.57E-05	5.74E-06
0.003286	0.01279	0.01734	3.45E-05	0.000252	0.000232	0.000868	10.30374	0.000154	3.44E-05
0.001659	2.107908	0.037963	0.00166	0.001577	0.001395	0.046256	249.9265	0.00537	0.001376
0.003286	0.003113	0.00422	8.38E-06	6.14E-05	5.65E-05	0.000211	2.507633	3.75E-05	8.38E-06
0.003286	0.001659	0.00225	4.47E-06	3.27E-05	3.01E-05	0.000113	1.336754	2E-05	4.47E-06
0.001659	2.813721	0.050675	0.002216	0.002106	0.001863	0.061745	333.6121	0.007168	0.001837
0.002802	0.000376	0.000647	9.34E-07	9.72E-06	8.94E-06	2.69E-05	0.279476	3.28E-06	4.94E-07
0.002802	0.000553	0.00095	1.37E-06	1.43E-05	1.31E-05	3.95E-05	0.41048	4.82E-06	7.26E-07
0.003286	0.005041	0.006834	1.36E-05	9.94E-05	9.15E-05	0.000342	4.061216	6.08E-05	1.36E-05
0.003286	0.000448	0.000608	1.21E-06	8.84E-06	8.13E-06	3.04E-05	0.361021	5.4E-06	1.21E-06
0.003286	0.002689	0.003645	7.24E-06	5.3E-05	4.88E-05	0.000183	2.166127	3.24E-05	7.24E-06
0.001659	1.394577	0.025116	0.001098	0.001044	0.000923	0.030603	165.3496	0.003553	0.00091
Totals	**19.41565**	**0.653072**	**0.015715**	**0.018845**	**0.016829**	**0.436359**	**2454.445**	**0.051536**	**0.01311**

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 1:25:11 PM

==
STUDY

Study Name

Austin Airport

Study Description

2028 Construction Schedule

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

										NONROAD Emission Factors g/-hp-hr							NONROAD Emissions (TPY)						
										3	6	2	9	7	8	11							
Scenario I[	Year	Project	Constructi	Equipment	MovesLoo	Fuel	HP Averag	Load Factc	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)	PM10 (tpy	PM2.5 (tp\	VOC Exhaust (tpy)
1	2028	Taxiways	Asphalt Pl:	Asphalt Paver	Pavers175	Diesel	175	0.59	5.2485	7.28E-02	2.27E-01	5.37E+02	1.42E-03	1.73E-02	1.67E-02	1.15E-02	4.35E-05	0.000135	0.320658	8.5E-07	1.03E-05	1E-05	6.89E-06
1	2028	Taxiways	Asphalt Pl:	Dump Truck	Off-highw:	Diesel	600	0.59	18.90287	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000173	0.000877	3.959596	1.04E-05	5.2E-05	5.04E-05	7.38E-05
1	2028	Taxiways	Asphalt Pl:	Other General Equipment	Other Con	Diesel	175	0.43	10.497	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000127	0.000367	0.467367	1.26E-06	3.1E-05	3E-05	2.16E-05
1	2028	Taxiways	Asphalt Pl:	Pickup Truck	Off-highw:	Diesel	600	0.59	5.2485	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	4.79E-05	0.000244	1.099407	2.9E-06	1.44E-05	1.4E-05	2.05E-05
1	2028	Taxiways	Asphalt Pl:	Roller	Rollers100	Diesel	100	0.59	5.2485	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	4.48E-05	0.000317	0.203484	5.4E-07	8.55E-06	8.3E-06	4.21E-06
1	2028	Taxiways	Asphalt Pl:	Skid Steer Loader	Skid Steer	Diesel	75	0.21	5.2485	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.000222	0.00033	0.0633	1.91E-07	2.88E-05	2.8E-05	4.11E-05
1	2028	Taxiways	Asphalt Pl:	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	6.71808	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.70E-01	1.65E-01	3.52E-01	0.000163	0.000411	0.065009	2.39E-07	1.86E-05	1.8E-05	3.84E-05
1	2028	Taxiways	Clearing ar	Chain Saw	Other Con	Diesel	11	0.7	14.4	2.46E+00	4.18E+00	5.94E+02	2.18E-03	2.39E-01	2.32E-01	8.38E-01	0.000301	0.000511	0.072572	2.67E-07	2.92E-05	2.83E-05	0.000102
1	2028	Taxiways	Clearing ar	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	14.4	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.000222	0.000757	0.406852	1.1E-06	3.45E-05	3.35E-05	2.01E-05
1	2028	Taxiways	Clearing ar	Pickup Truck	Off-highw:	Diesel	600	0.59	19.2	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000175	0.000891	4.021836	1.06E-05	5.28E-05	5.12E-05	7.5E-05
1	2028	Taxiways	Drainage -	Dozer	Crawler Tr	Diesel	175	0.59	45.152	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.000329	0.00107	2.758594	7.29E-06	7.65E-05	7.42E-05	5.29E-05
1	2028	Taxiways	Drainage -	Dump Truck	Off-highw:	Diesel	600	0.59	45.152	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000412	0.002096	9.458018	2.49E-05	0.000124	0.00012	0.000176
1	2028	Taxiways	Drainage -	Excavator	Excavators	Diesel	175	0.59	45.152	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	0.000284	0.000932	2.758612	7.28E-06	6.46E-05	6.26E-05	4.65E-05
1	2028	Taxiways	Drainage -	Loader	Tractors/L	Diesel	175	0.59	45.152	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.002918	0.005615	3.217653	9.1E-06	0.000679	0.000659	0.00073
1	2028	Taxiways	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	45.152	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000546	0.001579	2.010341	5.43E-06	0.000133	0.000129	9.28E-05
1	2028	Taxiways	Drainage -	Pickup Truck	Off-highw:	Diesel	600	0.59	45.152	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000412	0.002096	9.458018	2.49E-05	0.000124	0.00012	0.000176
1	2028	Taxiways	Drainage -	Roller	Rollers100	Diesel	100	0.59	45.152	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000386	0.00273	1.750539	4.64E-06	7.36E-05	7.14E-05	3.62E-05
1	2028	Taxiways	Drainage -	Dump Truck	Off-highw:	Diesel	600	0.59	25.08444	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000229	0.001164	5.254454	1.39E-05	6.9E-05	6.69E-05	9.8E-05
1	2028	Taxiways	Drainage -	Loader	Tractors/L	Diesel	175	0.59	25.08444	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.001621	0.003119	1.787585	5.06E-06	0.000377	0.000366	0.000406
1	2028	Taxiways	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	25.08444	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000303	0.000877	1.116856	3.02E-06	7.4E-05	7.18E-05	5.16E-05
1	2028	Taxiways	Drainage -	Pickup Truck	Off-highw:	Diesel	600	0.59	25.08444	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000229	0.001164	5.254454	1.39E-05	6.9E-05	6.69E-05	9.8E-05
1	2028	Taxiways	Drainage -	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	25.08444	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000806	0.001029	0.403816	1.14E-06	0.000116	0.000112	0.000114
1	2028	Taxiways	Dust Contr	Water Truck	Off-highw:	Diesel	600	0.59	2160	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.019722	0.10025	452.4566	0.001193	0.005942	0.005764	0.008437
1	2028	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	23.32667	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.00017	0.000553	1.425159	3.77E-06	3.95E-05	3.83E-05	2.73E-05
1	2028	Taxiways	Excavation	Dump Truck (12 cy)	Off-highw:	Diesel	600	0.59	23.32667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000213	0.001083	4.886252	1.29E-05	6.42E-05	6.22E-05	9.11E-05
1	2028	Taxiways	Excavation	Pickup Truck	Off-highw:	Diesel	600	0.59	23.32667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000213	0.001083	4.886252	1.29E-05	6.42E-05	6.22E-05	9.11E-05
1	2028	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	10.76615	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	9.2E-05	0.000651	0.417403	1.11E-06	1.75E-05	1.7E-05	8.64E-06
1	2028	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	17.495	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.000127	0.000415	1.068869	2.83E-06	2.96E-05	2.88E-05	2.05E-05
1	2028	Taxiways	Excavation	Dump Truck (12 cy)	Off-highw:	Diesel	600	0.59	46.65333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000426	0.002165	9.772503	2.58E-05	0.000128	0.000124	0.000182
1	2028	Taxiways	Excavation	Excavator	Excavators	Diesel	175	0.59	13.996	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	8.79E-05	0.000289	0.855101	2.26E-06	2E-05	1.94E-05	1.44E-05
1	2028	Taxiways	Excavation	Pickup Truck	Off-highw:	Diesel	600	0.59	13.996	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000128	0.00065	2.931751	7.73E-06	3.85E-05	3.73E-05	5.47E-05
1	2028	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	13.996	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.00012	0.000846	0.542624	1.44E-06	2.28E-05	2.21E-05	1.12E-05
1	2028	Taxiways	Excavation	Scraper	Scrapers6(	Diesel	600	0.59	17.495	1.10E-01	3.00E-01	5.37E+02	1.45E-03	2.15E-02	2.09E-02	2.04E-02	0.00075	0.002048	3.66448	9.87E-06	0.000147	0.000143	0.000139
1	2028	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	6.586353	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	4.8E-05	0.000156	0.402398	1.06E-06	1.12E-05	1.08E-05	7.72E-06
1	2028	Taxiways	Fencing	Concrete Truck	Off-highw:	Diesel	600	0.59	15.56667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000142	0.000722	3.260759	8.6E-06	4.28E-05	4.15E-05	6.08E-05
1	2028	Taxiways	Fencing	Dump Truck	Off-highw:	Diesel	600	0.59	62.26667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000569	0.00289	13.04304	3.44E-05	0.000171	0.000166	0.000243
1	2028	Taxiways	Fencing	Other General Equipment	Other Con	Diesel	175	0.43	62.26667	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000753	0.002177	2.772351	7.49E-06	0.000184	0.000178	0.000128
1	2028	Taxiways	Fencing	Pickup Truck	Off-highw:	Diesel	600	0.59	62.26667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000569	0.00289	13.04304	3.44E-05	0.000171	0.000166	0.000243
1	2028	Taxiways	Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	62.26667	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.002632	0.003916	0.75097	2.27E-06	0.000342	0.000332	0.000487
1	2028	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	62.26667	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.002002	0.002554	1.002385	2.84E-06	0.000287	0.000278	0.000282
1	2028	Taxiways	Grading	Dozer	Crawler Tr	Diesel	175	0.59	5.795	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	4.22E-05	0.000137	0.35405	9.36E-07	9.82E-06	9.53E-06	6.79E-06
1	2028	Taxiways	Grading	Grader	Graders30	Diesel	300	0.59	5.795	2.80E-02	1.31E-01	5.37E+02	1.42E-03	8.01E-03	7.77E-03	1.08E-02	3.17E-05	0.000148	0.606939	1.6E-06	9.05E-06	8.78E-06	1.23E-05
1	2028	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	5.795	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	4.95E-05	0.00035	0.224672	5.96E-07	9.44E-06	9.16E-06	4.65E-06
1	2028	Taxiways	Hydroseec	Hydroseeder	Other Con	Diesel	600	0.59	5.2207	3.46E-01	8.05E-01	5.37E+02	1.52E-03	5.65E-02	5.48E-02	4.96E-02	0.000705	0.001641	1.093348	3.09E-06	0.000115	0.000112	0.000101
1	2028	Taxiways	Hydroseec	Off-Road Truck	Off-highw:	Diesel	600	0.59	5.2207	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	4.77E-05	0.000242	1.093583	2.88E-06	1.44E-05	1.39E-05	2.04E-05
1	2028	Taxiways	Lighting	Dump Truck	Off-highw:	Diesel	600	0.59	19.04	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000174	0.000884	3.988321	1.05E-05	5.24E-05	5.08E-05	7.44E-05
1	2028	Taxiways	Lighting	Loader	Tractors/L	Diesel	175	0.59	19.04	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.00123	0.002368	1.356841	3.84E-06	0.000286	0.000278	0.000308
1	2028	Taxiways	Lighting	Other General Equipment	Other Con	Diesel	175	0.43	19.04	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.00023	0.000666	0.847734	2.29E-06	5.61E-05	5.45E-05	3.91E-05
1	2028	Taxiways	Lighting	Pickup Truck	Off-highw:	Diesel	600	0.59	19.04	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000174	0.000884	3.988321	1.05E-05	5.24E-05	5.08E-05	7.44E-05
1	2028	Taxiways	Lighting	Skid Steer Loader	Skid Steer	Diesel	75	0.21	19.04	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.000805	0.001197	0.229633	6.95E-07	0.000105	0.000101	0.000149
1	2028	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	19.04	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000612	0.000781	0.306511	8.68E-07	8.77E-05	8.51E-05	8.63E-05
1	2028	Taxiways	Markings	Flatbed Truck	Off-highw:	Diesel	600	0.59	86.46171	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000789	0.004013	18.11119	4.77E-05	0.000238	0.000231	0.000338
1	2028	Taxiways	Markings	Other General Equipment	Other Con	Diesel	175	0.43	86.46171	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.001046	0.003023	3.849608	1.04E-05	0.000255	0.000247	0.000178
1	2028	Taxiways	Markings	Pickup Truck	Off-highw:	Diesel	600	0.59	86.46171	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000789	0.004013	18.11119	4.77E-05	0.000238	0.000231	0.000338
1	2028	Taxiways	Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	4.8	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	5.81E-05	0.000168	0.213714	5.77E-07	1.42E-05	1.37E-05	9.87E-06
1	2028	Taxiways	Soil Erosio	Pickup Truck	Off-highw:	Diesel	600	0.59	9.6	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	8.77E-05	0.000446	2.010918	5.3E-06	2.64E-05	2.56E-05	3.75E-05
1	2028	Taxiways	Soil Erosio	Pumps	Other Con	Diesel	11	0.43	4.8	2.46E+00	4.18E+00	5.94E+02	2.18E-03	2.39E-01	2.32E-01	8.38E-01	6.16E-05	0.000105	0.01486	5.46E-08	5.97E-06	5.79E-06	2.1E-05

1	2028	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	4.8	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000154	0.000197	0.077272	2.19E-07	2.21E-05	2.15E-05	2.18E-05
1	2028	Taxiways	Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	8.839579	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	6.44E-05	0.000209	0.54006	1.43E-06	1.5E-05	1.45E-05	1.04E-05
1	2028	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	62.20444	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000568	0.002887	13.03	3.44E-05	0.000171	0.000166	0.000243
1	2028	Taxiways	Subbase P	Pickup Truck	Off-highwa	Diesel	600	0.59	8.839579	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	8.07E-05	0.00041	1.851632	4.88E-06	2.43E-05	2.36E-05	3.45E-05
1	2028	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	8.612923	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	7.36E-05	0.000521	0.333922	8.86E-07	1.4E-05	1.36E-05	6.91E-06
1	2028	Taxiways	Topsoil Pla	Dozer	Crawler Tr	Diesel	175	0.59	12.87733	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	9.38E-05	0.000305	0.78675	2.08E-06	2.18E-05	2.12E-05	1.51E-05
1	2028	Taxiways	Topsoil Pla	Dump Truck	Off-highwa	Diesel	600	0.59	12.87733	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000118	0.000598	2.697423	7.11E-06	3.54E-05	3.44E-05	5.03E-05
1	2028	Taxiways	Topsoil Pla	Pickup Truck	Off-highwa	Diesel	600	0.59	12.87733	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000118	0.000598	2.697423	7.11E-06	3.54E-05	3.44E-05	5.03E-05
2	2028	Taxiways	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	17.922	7.28E-02	2.27E-01	5.37E+02	1.42E-03	1.73E-02	1.67E-02	1.15E-02	0.000149	0.000462	1.094948	2.9E-06	3.52E-05	3.42E-05	2.35E-05
2	2028	Taxiways	Asphalt Pl	Dump Truck	Off-highwa	Diesel	600	0.59	64.54744	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000589	0.002996	13.52079	3.56E-05	0.000178	0.000172	0.000252
2	2028	Taxiways	Asphalt Pl	Other General Equipment	Other Con	Diesel	175	0.43	35.844	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000434	0.001253	1.595913	4.31E-06	0.000106	0.000103	7.37E-05
2	2028	Taxiways	Asphalt Pl	Pickup Truck	Off-highwa	Diesel	600	0.59	17.922	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000164	0.000832	3.754133	9.9E-06	4.93E-05	4.78E-05	7E-05
2	2028	Taxiways	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	17.922	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000153	0.001084	0.694834	1.84E-06	2.92E-05	2.83E-05	1.44E-05
2	2028	Taxiways	Asphalt Pl	Skid Steer Loader	Skid Steer	Diesel	75	0.21	17.922	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.000758	0.001127	0.216149	6.54E-07	9.84E-05	9.55E-05	0.00014
2	2028	Taxiways	Asphalt Pl	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	22.94016	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.70E-01	1.65E-01	3.52E-01	0.000555	0.001403	0.221984	8.16E-07	6.35E-05	6.16E-05	0.000131
2	2028	Taxiways	Clearing ar	Chain Saw	Other Con	Diesel	11	0.7	50.4	2.46E+00	4.18E+00	5.94E+02	2.18E-03	2.39E-01	2.32E-01	8.38E-01	0.001052	0.00179	0.254001	9.34E-07	0.000102	9.9E-05	0.000358
2	2028	Taxiways	Clearing ar	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	50.4	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.000779	0.002651	1.423983	3.85E-06	0.000121	0.000117	7.02E-05
2	2028	Taxiways	Clearing ar	Pickup Truck	Off-highwa	Diesel	600	0.59	67.2	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000614	0.003119	14.07643	3.71E-05	0.000185	0.000179	0.000262
2	2028	Taxiways	Concrete F	Air Compressor	Other Con	Diesel	100	0.43	47.792	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.000738	0.002514	1.350298	3.65E-06	0.000115	0.000111	6.66E-05
2	2028	Taxiways	Concrete F	Concrete Saws	Other Con	Diesel	40	0.59	47.792	2.79E-01	2.53E+00	5.96E+02	1.57E-03	2.05E-02	1.98E-02	9.25E-02	0.000347	0.003144	0.740856	1.95E-06	2.54E-05	2.47E-05	0.000115
2	2028	Taxiways	Concrete F	Concrete Truck	Off-highwa	Diesel	600	0.59	199.1333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001818	0.009242	41.71258	0.00011	0.000548	0.000531	0.000778
2	2028	Taxiways	Concrete F	Other General Equipment	Other Con	Diesel	175	0.43	95.584	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.001156	0.003342	4.255767	1.15E-05	0.000282	0.000273	0.000197
2	2028	Taxiways	Concrete F	Pickup Truck	Off-highwa	Diesel	600	0.59	143.376	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001309	0.006654	30.03306	7.92E-05	0.000394	0.000383	0.00056
2	2028	Taxiways	Concrete F	Rubber Tired Loader	Tractors/L	Diesel	175	0.59	47.792	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.003089	0.005943	3.405786	9.63E-06	0.000719	0.000697	0.000773
2	2028	Taxiways	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	47.792	7.28E-02	2.27E-01	5.37E+02	1.42E-03	1.73E-02	1.67E-02	1.15E-02	0.000396	0.001233	2.919862	7.74E-06	9.39E-05	9.11E-05	6.27E-05
2	2028	Taxiways	Concrete F	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	47.792	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.70E-01	1.65E-01	3.52E-01	0.001156	0.002924	0.462467	1.7E-06	0.000132	0.000128	0.000273
2	2028	Taxiways	Drainage -	Dozer	Crawler Tr	Diesel	175	0.59	172.544	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.001256	0.004089	10.5417	2.79E-05	0.000292	0.000284	0.000202
2	2028	Taxiways	Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	172.544	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001575	0.008008	36.1429	9.53E-05	0.000475	0.00046	0.000674
2	2028	Taxiways	Drainage -	Excavator	Excavators	Diesel	175	0.59	172.544	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	0.001084	0.00356	10.54177	2.78E-05	0.000247	0.000239	0.000178
2	2028	Taxiways	Drainage -	Loader	Tractors/L	Diesel	175	0.59	172.544	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.011151	0.021457	12.29595	3.48E-05	0.002595	0.002517	0.002791
2	2028	Taxiways	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	172.544	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.002087	0.006033	7.682322	2.08E-05	0.000509	0.000494	0.000355
2	2028	Taxiways	Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	172.544	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001575	0.008008	36.1429	9.53E-05	0.000475	0.00046	0.000674
2	2028	Taxiways	Drainage -	Roller	Rollers100	Diesel	100	0.59	172.544	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.001474	0.010433	6.689514	1.77E-05	0.000281	0.000273	0.000138
2	2028	Taxiways	Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	95.85778	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000875	0.004449	20.07939	5.29E-05	0.000264	0.000256	0.000374
2	2028	Taxiways	Drainage -	Loader	Tractors/L	Diesel	175	0.59	95.85778	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.006195	0.01192	6.831082	1.93E-05	0.001442	0.001398	0.00155
2	2028	Taxiways	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	95.85778	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.001159	0.003352	4.267957	1.15E-05	0.000283	0.000274	0.000197
2	2028	Taxiways	Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	95.85778	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000875	0.004449	20.07939	5.29E-05	0.000264	0.000256	0.000374
2	2028	Taxiways	Drainage -	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	95.85778	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.003082	0.003933	1.543144	4.37E-06	0.000442	0.000428	0.000435
2	2028	Taxiways	Dust Contr	Water Truck	Off-highwa	Diesel	600	0.59	2160	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.019722	0.10025	452.4566	0.001193	0.005942	0.005764	0.008437
2	2028	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	79.65333	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.00058	0.001888	4.866477	1.29E-05	0.000135	0.000131	9.33E-05
2	2028	Taxiways	Excavation	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	79.65333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000727	0.003697	16.68503	4.4E-05	0.000219	0.000213	0.000311
2	2028	Taxiways	Excavation	Pickup Truck	Off-highwa	Diesel	600	0.59	79.65333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000727	0.003697	16.68503	4.4E-05	0.000219	0.000213	0.000311
2	2028	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	36.76308	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000314	0.002223	1.425301	3.78E-06	5.99E-05	5.81E-05	2.95E-05
2	2028	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	59.74	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.000435	0.001416	3.649858	9.65E-06	0.000101	9.82E-05	7E-05
2	2028	Taxiways	Excavation	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	159.3067	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001455	0.007394	33.37007	8.8E-05	0.000438	0.000425	0.000622
2	2028	Taxiways	Excavation	Excavator	Excavators	Diesel	175	0.59	47.792	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	0.0003	0.000986	2.919905	7.7E-06	6.83E-05	6.63E-05	4.92E-05
2	2028	Taxiways	Excavation	Pickup Truck	Off-highwa	Diesel	600	0.59	47.792	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000436	0.002218	10.01102	2.64E-05	0.000131	0.000128	0.000187
2	2028	Taxiways	Excavation	Roller	Rollers100	Diesel	100	0.59	47.792	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000408	0.00289	1.852891	4.92E-06	7.79E-05	7.55E-05	3.83E-05
2	2028	Taxiways	Excavation	Scraper	Scrapers6(	Diesel	600	0.59	59.74	1.10E-01	3.00E-01	5.37E+02	1.45E-03	2.15E-02	2.09E-02	2.04E-02	0.002562	0.006994	12.51306	3.37E-05	0.000502	0.000487	0.000476
2	2028	Taxiways	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	22.49035	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.000164	0.000533	1.374064	3.63E-06	3.81E-05	3.7E-05	2.63E-05
2	2028	Taxiways	Fencing	Concrete Truck	Off-highwa	Diesel	600	0.59	59.8	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000546	0.002775	12.52634	3.3E-05	0.000165	0.00016	0.000234
2	2028	Taxiways	Fencing	Dump Truck	Off-highwa	Diesel	600	0.59	239.2	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.002184	0.011102	50.10537	0.000132	0.000658	0.000638	0.000934
2	2028	Taxiways	Fencing	Other General Equipment	Other Con	Diesel	175	0.43	239.2	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.002893	0.008364	10.6501	2.88E-05	0.000705	0.000684	0.000492
2	2028	Taxiways	Fencing	Pickup Truck	Off-highwa	Diesel	600	0.59	239.2	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.002184	0.011102	50.10537	0.000132	0.000658	0.000638	0.000934
2	2028	Taxiways	Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	239.2	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.010112	0.015044	2.884882	8.73E-06	0.001313	0.001274	0.001873
2	2028	Taxiways	Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	239.2	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.007689	0.009813	3.850704	1.09E-05	0.001102	0.001069	0.001084
2	2028	Taxiways	Grading	Dozer	Crawler Tr	Diesel	175	0.59	20.3494	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.000148	0.000482	1.243261	3.29E-06	3.45E-05	3.35E-05	2.38E-05
2	2028	Taxiways	Grading	Grader	Graders30	Diesel	300	0.59	20.3494	2.80E-02	1.31E-01	5.37E+02	1.42E-03	8.01E-03	7.77E-03	1.08E-02	0.000111	0.00052	2.131294	5.63E-06	3.18E-05	3.08E-05	4.31E-05
2	2028	Taxiways	Grading	Roller	Rollers100	Diesel	100	0.59	20.3494	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000174	0.00123	0.788944	2.09E-06	3.32E-05	3.22E-05	1.63E-05
2	2028	Taxiways	Hydroseec	Hydroseeder	Other Con	Diesel	600	0.59	18.3328	3.46E-01	8.05E-01	5.37E+02	1.52E-03	5.65E-02	5.48E-02	4.96E-02	0.002475	0.005762	3.839356	1.09E-05	0.000404	0.000392	0.000355
2	2028	Taxiways	Hydroseec	Off-Road Truck	Off-highwa	Diesel	600	0.59	18.3328	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000167	0.000851	3.840183	1.01E-05	5.04E-05	4.89E-05	7.16E-05
2	2028	Taxiways	Lighting	Dump Truck	Off-highwa	Diesel	600	0.59	72.08	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000658	0.003345	15.09864	3.98E-05	0.000198	0.000192	0.000282
2	2028	Taxiways	Lighting	Loader	Tractors/L	Diesel	175	0.59	72.08	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.004658	0.008963	5.136614	1.45E-05	0.001084	0.001051	0.001166
2	2028	Taxiways	Lighting	Other General Equipment	Other Con	Diesel	175	0.43	72.08	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000872	0.00252	3.209279	8.67E-06	0.000213	0.000206	0.000148
2	2028	Taxiways	Lighting	Pickup Truck	Off-highwa	Diesel	600	0.59	72.08	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000658	0.003345	15.09864	3.98E-05	0.000198	0.000192	0.000282
2	2028	Taxiways	Lighting	Skid Steer Loader	Skid Steer	Diesel	75	0.21	72.08	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.003047	0.004533	0.869324	2.63E-06	0.000396	0.000384	0.000564
2	2028	Taxiways	Lighting	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	72.08	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.002317	0.002957	1.160363	3.28E-06	0.000332	0.000322	0.000327
2	2028	Taxiways	Markings	Flatbed Truck	Off-highwa	Diesel	600	0.59	295.2411	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.002696	0.013703	61.84435	0.000163	0.000812	0.000788	0.001153
2	2028	Taxiways	Markings	Other General Equipment	Other Con	Diesel	175	0.43	295.2411	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.003571	0.010323	13.14527	3.55E-05	0.000871	0.000844	0.000607
2	2028	Taxiways	Markings	Pickup Truck	Off-highwa	Diesel	600	0.59	295.2411	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.002696	0.013703	61.84435	0.000163	0.000812	0.000788	0.001153
2	2028	Taxiways	Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	16.8	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000203	0.000587	0.748001	2.02E-06	4.95E-05	4.81E-05	3.45E-05
2	2028	Taxiways	Soil Erosio	Pickup Truck	Off-highwa	Diesel	600	0.59	33.6	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000307	0.001559	7.038213	1.86E-05	9.24E-05	8.97E-05	0.000131
2	2028	Taxiways	Soil Erosio	Pumps	Other Con	Diesel	11	0.43	16.8	2.46E+00	4.18E+00	5.94E+02	2.18E-03	2.39E-01	2.32E-01	8.38E-01	0.000215	0.000366	0.05201	1.91E-07	2.09E-05	2.03E-05	7.34E-05
2	2028	Taxiways	Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	16.8	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.00054	0.000689	0.270451	7.66E-07	7.74E-05	7.51E-05	7.62E-05
2	2028	Taxiways	Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	30.18442	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.00022	0.000715	1.844139	4.88E-06	5.12E-05	4.96E-05	3.54E-05
2	2028	Taxiways	Subbase P	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	212.4089	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001939	0.009858	44.49342	0.000117	0.000584	0.000567	0.00083
2	2028	Taxiways	Subbase P	Pickup Truck	Off-highwa	Diesel	600	0.59	30.18442	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000276	0.001401	6.32275	1.67E-05	8.3E-05	8.05E-05	0.000118
2	2028	Taxiways	Subbase P	Roller	Rollers100	Diesel	100	0.59	29.41046	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000251	0.001778	1.140241	3.02E-06	4.79E-05	4.65E-05	2.36E-05
2	2028	Taxiways	Topsoil Pla	Dozer	Crawler Tr	Diesel	175	0.59	45.22133	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.000329	0.001072	2.76283	7.3E-06	7.66E-05	7.43E-05	5.3E-05
2	2028	Taxiways	Topsoil Pla	Dump Truck	Off-highwa	Diesel	600	0.59	45.22133	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000413	0.002099	9.472541	2.5E-05	0.000124	0.000121	0.000177
2	2028	Taxiways	Topsoil Pla	Pickup Truck	Off-highwa	Diesel	600	0.59	45.22133	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000413	0.002099	9.472541	2.5E-05	0.000124	0.000121	0.000177
3	2028	Demolitio	Concrete [	Excavator with Bucket	Excavators	Diesel	175	0.59	69.216	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	0.000435	0.001428	4.228828	1.12E-05	9.9E-05	9.6E-05	7.13E-05
3	2028	Demolitio	Concrete [	Excavator with Hoe Ram	Excavators	Diesel	175	0.59	69.216	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	0.000435	0.001428	4.228828	1.12E-05	9.9E-05	9.6E-05	7.13E-05
3	2028	Demolitio	Concrete [	Pickup Truck	Off-highwa	Diesel	600	0.59	138.432	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001264	0.006425	28.99744	7.64E-05	0.000381	0.000369	0.000541

4	2028	Apron (GA Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	6.014	7.28E-02	2.27E-01	5.37E+02	1.42E-03	1.73E-02	1.67E-02	1.15E-02	4.99E-05	0.000155	0.367427	9.74E-07	1.18E-05	1.15E-05	7.89E-06
4	2028	Apron (GA Asphalt Pl	Dump Truck	Off-highwa	Diesel	600	0.59	21.65988	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000198	0.001005	4.537108	1.2E-05	5.96E-05	5.78E-05	8.46E-05
4	2028	Apron (GA Asphalt Pl	Other General Equipment	Other Con	Diesel	175	0.43	12.028	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000145	0.000421	0.535533	1.45E-06	3.55E-05	3.44E-05	2.47E-05
4	2028	Apron (GA Asphalt Pl	Pickup Truck	Off-highwa	Diesel	600	0.59	6.014	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	5.49E-05	0.000279	1.259756	3.32E-06	1.65E-05	1.6E-05	2.35E-05
4	2028	Apron (GA Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	6.014	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	5.14E-05	0.000364	0.233162	6.19E-07	9.8E-06	9.51E-06	4.83E-06
4	2028	Apron (GA Asphalt Pl	Skid Steer Loader	Skid Steer	Diesel	75	0.21	6.014	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.000254	0.000378	0.072532	2.19E-07	3.3E-05	3.2E-05	4.71E-05
4	2028	Apron (GA Asphalt Pl	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	7.69792	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.70E-01	1.65E-01	3.52E-01	0.000186	0.000471	0.07449	2.74E-07	2.13E-05	2.07E-05	4.4E-05
4	2028	Apron (GA Clearing a	Chain Saw	Other Con	Diesel	11	0.7	13.2	2.46E+00	4.18E+00	5.94E+02	2.18E-03	2.39E-01	2.32E-01	8.38E-01	0.000276	0.000469	0.066524	2.45E-07	2.67E-05	2.59E-05	9.39E-05
4	2028	Apron (GA Clearing a	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	13.2	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.000204	0.000694	0.372948	1.01E-06	3.17E-05	3.07E-05	1.84E-05
4	2028	Apron (GA Clearing a	Pickup Truck	Off-highwa	Diesel	600	0.59	17.6	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000161	0.000817	3.686683	9.72E-06	4.84E-05	4.7E-05	6.87E-05
4	2028	Apron (GA Concrete F	Air Compressor	Other Con	Diesel	100	0.43	16.0376	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.000248	0.000844	0.453121	1.22E-06	3.85E-05	3.73E-05	2.23E-05
4	2028	Apron (GA Concrete F	Concrete Saws	Other Con	Diesel	40	0.59	16.0376	2.79E-01	2.53E+00	5.96E+02	1.57E-03	2.05E-02	1.98E-02	9.25E-02	0.000116	0.001055	0.248609	6.55E-07	8.54E-06	8.28E-06	3.86E-05
4	2028	Apron (GA Concrete F	Concrete Truck	Off-highwa	Diesel	600	0.59	66.82333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.00061	0.003101	13.99753	3.69E-05	0.000184	0.000178	0.000261
4	2028	Apron (GA Concrete F	Other General Equipment	Other Con	Diesel	175	0.43	32.0752	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000388	0.001122	1.428111	3.86E-06	9.46E-05	9.17E-05	6.59E-05
4	2028	Apron (GA Concrete F	Pickup Truck	Off-highwa	Diesel	600	0.59	48.1128	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000439	0.002233	10.07822	2.66E-05	0.000132	0.000128	0.000188
4	2028	Apron (GA Concrete F	Rubber Tired Loader	Tractors/L	Diesel	175	0.59	16.0376	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.001036	0.001994	1.142882	3.23E-06	0.000241	0.000234	0.000259
4	2028	Apron (GA Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	16.0376	7.28E-02	2.27E-01	5.37E+02	1.42E-03	1.73E-02	1.67E-02	1.15E-02	0.000133	0.000414	0.979821	2.6E-06	3.15E-05	3.06E-05	2.1E-05
4	2028	Apron (GA Concrete F	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	16.0376	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.70E-01	1.65E-01	3.52E-01	0.000388	0.000981	0.15519	5.71E-07	4.44E-05	4.31E-05	9.17E-05
4	2028	Apron (GA Drainage -	Dozer	Crawler Tr	Diesel	175	0.59	8.576	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	6.24E-05	0.000203	0.523957	1.39E-06	1.45E-05	1.41E-05	1E-05
4	2028	Apron (GA Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	8.576	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	7.83E-05	0.000398	1.79642	4.74E-06	2.36E-05	2.29E-05	3.35E-05
4	2028	Apron (GA Drainage -	Excavator	Excavators	Diesel	175	0.59	8.576	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	5.39E-05	0.000177	0.52396	1.38E-06	1.23E-05	1.19E-05	8.83E-06
4	2028	Apron (GA Drainage -	Loader	Tractors/L	Diesel	175	0.59	8.576	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.000554	0.001066	0.611149	1.73E-06	0.000129	0.000125	0.000139
4	2028	Apron (GA Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	8.576	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000104	0.0003	0.381836	1.03E-06	2.53E-05	2.45E-05	1.76E-05
4	2028	Apron (GA Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	8.576	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	7.83E-05	0.000398	1.79642	4.74E-06	2.36E-05	2.29E-05	3.35E-05
4	2028	Apron (GA Drainage -	Roller	Rollers100	Diesel	100	0.59	8.576	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	7.33E-05	0.000519	0.332491	8.82E-07	1.4E-05	1.36E-05	6.88E-06
4	2028	Apron (GA Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	4.764444	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	4.35E-05	0.000221	0.998011	2.63E-06	1.31E-05	1.27E-05	1.86E-05
4	2028	Apron (GA Drainage -	Loader	Tractors/L	Diesel	175	0.59	4.764444	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.000308	0.000592	0.339527	9.6E-07	7.17E-05	6.95E-05	7.71E-05
4	2028	Apron (GA Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	4.764444	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	5.76E-05	0.000167	0.212131	5.73E-07	1.4E-05	1.36E-05	9.8E-06
4	2028	Apron (GA Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	4.764444	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	4.35E-05	0.000221	0.998011	2.63E-06	1.31E-05	1.27E-05	1.86E-05
4	2028	Apron (GA Drainage -	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	4.764444	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000153	0.000195	0.076699	2.17E-07	2.2E-05	2.13E-05	2.16E-05
4	2028	Apron (GA Dust Contr	Water Truck	Off-highwa	Diesel	600	0.59	2160	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.019722	0.10025	452.4566	0.001193	0.005942	0.005764	0.008437
4	2028	Apron (GA Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	26.72933	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.000195	0.000633	1.633048	4.32E-06	4.53E-05	4.39E-05	3.13E-05
4	2028	Apron (GA Excavatior	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	26.72933	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000244	0.001241	5.59901	1.48E-05	7.35E-05	7.13E-05	0.000104
4	2028	Apron (GA Excavatior	Pickup Truck	Off-highwa	Diesel	600	0.59	26.72933	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000244	0.001241	5.59901	1.48E-05	7.35E-05	7.13E-05	0.000104
4	2028	Apron (GA Excavatior	Roller	Rollers100	Diesel	100	0.59	12.33662	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000105	0.000746	0.478289	1.27E-06	2.01E-05	1.95E-05	9.9E-06
4	2028	Apron (GA Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	20.047	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.000146	0.000475	1.224786	3.24E-06	3.4E-05	3.3E-05	2.35E-05
4	2028	Apron (GA Excavatior	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	53.45867	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000488	0.002481	11.19802	2.95E-05	0.000147	0.000143	0.000209
4	2028	Apron (GA Excavatior	Excavator	Excavators	Diesel	175	0.59	16.0376	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	0.000101	0.000331	0.979835	2.58E-06	2.29E-05	2.22E-05	1.65E-05
4	2028	Apron (GA Excavatior	Pickup Truck	Off-highwa	Diesel	600	0.59	16.0376	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000146	0.000744	3.359406	8.86E-06	4.41E-05	4.28E-05	6.26E-05
4	2028	Apron (GA Excavatior	Roller	Rollers100	Diesel	100	0.59	16.0376	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000137	0.00097	0.621776	1.65E-06	2.61E-05	2.53E-05	1.29E-05
4	2028	Apron (GA Excavatior	Scraper	Scrapers6(	Diesel	600	0.59	20.047	1.10E-01	3.00E-01	5.37E+02	1.45E-03	2.15E-02	2.09E-02	2.04E-02	0.00086	0.002347	4.199018	1.13E-05	0.000168	0.000163	0.00016
4	2028	Apron (GA Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	7.54698	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	5.5E-05	0.000179	0.461088	1.22E-06	1.28E-05	1.24E-05	8.84E-06
4	2028	Apron (GA Fencing	Concrete Truck	Off-highwa	Diesel	600	0.59	2.866667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	2.62E-05	0.000133	0.600482	1.58E-06	7.89E-06	7.65E-06	1.12E-05
4	2028	Apron (GA Fencing	Dump Truck	Off-highwa	Diesel	600	0.59	11.46667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000105	0.000532	2.40193	6.33E-06	3.15E-05	3.06E-05	4.48E-05
4	2028	Apron (GA Fencing	Other General Equipment	Other Con	Diesel	175	0.43	11.46667	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000139	0.000401	0.51054	1.38E-06	3.38E-05	3.28E-05	2.36E-05
4	2028	Apron (GA Fencing	Pickup Truck	Off-highwa	Diesel	600	0.59	11.46667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000105	0.000532	2.40193	6.33E-06	3.15E-05	3.06E-05	4.48E-05
4	2028	Apron (GA Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	11.46667	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.000485	0.000721	0.138294	4.18E-07	6.3E-05	6.11E-05	8.98E-05
4	2028	Apron (GA Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	11.46667	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000369	0.00047	0.184593	5.23E-07	5.28E-05	5.13E-05	5.2E-05
4	2028	Apron (GA Grading	Dozer	Crawler Tr	Diesel	175	0.59	5.2951	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	3.86E-05	0.000125	0.323508	8.55E-07	8.97E-06	8.7E-06	6.2E-06
4	2028	Apron (GA Grading	Grader	Graders30	Diesel	300	0.59	5.2951	2.80E-02	1.31E-01	5.37E+02	1.42E-03	8.01E-03	7.77E-03	1.08E-02	2.89E-05	0.000135	0.554582	1.46E-06	8.27E-06	8.02E-06	1.12E-05
4	2028	Apron (GA Grading	Roller	Rollers100	Diesel	100	0.59	5.2951	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	4.52E-05	0.00032	0.205291	5.45E-07	8.63E-06	8.37E-06	4.25E-06
4	2028	Apron (GA Hydroseec	Hydroseeder	Other Con	Diesel	600	0.59	4.7704	3.46E-01	8.05E-01	5.37E+02	1.52E-03	5.65E-02	5.48E-02	4.96E-02	0.000644	0.001499	0.999044	2.82E-06	0.000105	0.000102	9.24E-05
4	2028	Apron (GA Hydroseec	Off-Road Truck	Off-highwa	Diesel	600	0.59	4.7704	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	4.36E-05	0.000221	0.999259	2.63E-06	1.31E-05	1.27E-05	1.86E-05
4	2028	Apron (GA Lighting	Dump Truck	Off-highwa	Diesel	600	0.59	5.68	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	5.19E-05	0.000264	1.189793	3.14E-06	1.56E-05	1.52E-05	2.22E-05
4	2028	Apron (GA Lighting	Loader	Tractors/L	Diesel	175	0.59	5.68	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.000367	0.000706	0.404772	1.14E-06	8.54E-05	8.29E-05	9.19E-05
4	2028	Apron (GA Lighting	Other General Equipment	Other Con	Diesel	175	0.43	5.68	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	6.87E-05	0.000199	0.252895	6.83E-07	1.67E-05	1.62E-05	1.17E-05
4	2028	Apron (GA Lighting	Pickup Truck	Off-highwa	Diesel	600	0.59	5.68	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	5.19E-05	0.000264	1.189793	3.14E-06	1.56E-05	1.52E-05	2.22E-05
4	2028	Apron (GA Lighting	Skid Steer Loader	Skid Steer	Diesel	75	0.21	5.68	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.00024	0.000357	0.068504	2.07E-07	3.12E-05	3.03E-05	4.45E-05
4	2028	Apron (GA Lighting	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	5.68	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000183	0.000233	0.091438	2.59E-07	2.62E-05	2.54E-05	2.57E-05
4	2028	Apron (GA Markings	Flatbed Truck	Off-highwa	Diesel	600	0.59	99.072	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000905	0.004598	20.75267	5.47E-05	0.000273	0.000264	0.000387
4	2028	Apron (GA Markings	Other General Equipment	Other Con	Diesel	175	0.43	99.072	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.001198	0.003464	4.411066	1.19E-05	0.000292	0.000283	0.000204
4	2028	Apron (GA Markings	Pickup Truck	Off-highwa	Diesel	600	0.59	99.072	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000905	0.004598	20.75267	5.47E-05	0.000273	0.000264	0.000387
4	2028	Apron (GA Sealing/Fu	Distributing Tanker	Off-highwa	Diesel	600	0.59	12.82987	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000117	0.000595	2.68748	7.08E-06	3.53E-05	3.42E-05	5.01E-05
4	2028	Apron (GA Sealing/Fu	Other General Equipment	Other Con	Diesel	175	0.43	12.82987	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000155	0.000449	0.571235	1.54E-06	3.78E-05	3.67E-05	2.64E-05
4	2028	Apron (GA Sealing/Fu	Pickup Truck	Off-highwa	Diesel	600	0.59	12.82987	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000117	0.000595	2.68748	7.08E-06	3.53E-05	3.42E-05	5.01E-05
4	2028	Apron (GA Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	4.4	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	5.32E-05	0.000154	0.195905	5.29E-07	1.3E-05	1.26E-05	9.05E-06
4	2028	Apron (GA Soil Erosio	Pickup Truck	Off-highwa	Diesel	600	0.59	8.8	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	8.03E-05	0.000408	1.843342	4.86E-06	2.42E-05	2.35E-05	3.44E-05
4	2028	Apron (GA Soil Erosio	Pumps	Other Con	Diesel	11	0.43	4.4	2.46E+00	4.18E+00	5.94E+02	2.18E-03	2.39E-01	2.32E-01	8.38E-01	5.64E-05	9.6E-05	0.013622	5.01E-08	5.48E-06	5.31E-06	1.92E-05
4	2028	Apron (GA Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	4.4	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000141	0.000181	0.070832	2E-07	2.03E-05	1.97E-05	1.99E-05
4	2028	Apron (GA Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	10.12884	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	7.38E-05	0.00024	0.618829	1.64E-06	1.72E-05	1.66E-05	1.19E-05
4	2028	Apron (GA Subbase P	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	71.27556	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000651	0.003308	14.93014	3.94E-05	0.000196	0.00019	0.000278
4	2028	Apron (GA Subbase P	Pickup Truck	Off-highwa	Diesel	600	0.59	10.12884	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	9.25E-05	0.00047	2.121695	5.59E-06	2.79E-05	2.7E-05	3.96E-05
4	2028	Apron (GA Subbase P	Roller	Rollers100	Diesel	100	0.59	9.868923	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	8.43E-05	0.000597	0.382617	1.02E-06	1.61E-05	1.56E-05	7.92E-06
4	2028	Apron (GA Topsoil Pla	Dozer	Crawler Tr	Diesel	175	0.59	11.76667	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	8.57E-05	0.000279	0.718893	1.9E-06	1.99E-05	1.93E-05	1.38E-05
4	2028	Apron (GA Topsoil Pla	Dump Truck	Off-highwa	Diesel	600	0.59	11.76667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000107	0.000546	2.464771	6.5E-06	3.24E-05	3.14E-05	4.6E-05
4	2028	Apron (GA Topsoil Pla	Pickup Truck	Off-highwa	Diesel	600	0.59	11.76667	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000107	0.000546	2.464771	6.5E-06	3.24E-05	3.14E-05	4.6E-05
5	2028	Building - Concrete F	Backhoe	Tractors/L	Diesel	100	0.21	320	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.010287	0.013128	5.151444	1.46E-05	0.001475	0.00143	0.001451
5	2028	Building - Concrete F	Concrete Ready Mix Trucks	Off-highwa	Diesel	600	0.59	60	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000548	0.002785	12.56824	3.31E-05	0.000165	0.00016	0.000234
5	2028	Building - Concrete F	Fork Truck	Other Con	Diesel	100	0.59	320	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.006784	0.023095	12.40532	3.35E-05	0.001053	0.001021	0.000612
5	2028	Building - Concrete F	Tool Truck	Off-highwa	Diesel	600	0.59	80	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.00073	0.003713	16.75765	4.42E-05	0.00022	0.000213	0.000312
5	2028	Building - Concrete F	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	16	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000146	0.000743	3.35153	8.84E-06	4.4E-05	4.27E-05	6.25E-05
5	2028	Building - Constructi	Survey Crew Trucks	Off-highwa	Diesel	600	0.59	10	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	9.13E-05	0.000464	2.094706	5.52E-06	2.75E-05	2.67E-05	3.91E-05
5	2028	Building - Constructi	Tractor Trailers Temp Fac.	Off-highwa	Diesel	600	0.59	4	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	3.65E-05	0.000186	0.837883	2.21E-06	1.1E-05	1.07E-05	1.56E-05
5	2028	Building - Exterior W	Fork Truck	Other Con	Diesel	100	0.59	240	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.005088	0.017321	9.303989	2.51E-05	0.00079	0.000766	0.000459

5	2028	Building -	Exterior W	Man Lift	Rough Ter	Diesel	75	0.21	240	3.06E-01	2.61E+00	5.96E+02	1.60E-03	3.19E-02	3.10E-02	6.42E-02	0.001275	0.010856	2.483229	6.68E-06	0.000133	0.000129	0.000268
5	2028	Building -	Exterior W	Tool Truck	Off-highwa	Diesel	600	0.59	60	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000548	0.002785	12.56824	3.31E-05	0.000165	0.00016	0.000234
5	2028	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	24	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000219	0.001114	5.027295	1.33E-05	6.6E-05	6.4E-05	9.37E-05
5	2028	Building -	Interior Bu	Fork Truck	Other Con	Diesel	100	0.59	960	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.020351	0.069284	37.21596	0.000101	0.003159	0.003064	0.001835
5	2028	Building -	Interior Bu	Man Lift	Rough Ter	Diesel	75	0.21	960	3.06E-01	2.61E+00	5.96E+02	1.60E-03	3.19E-02	3.10E-02	6.42E-02	0.005098	0.043425	9.932917	2.67E-05	0.000532	0.000516	0.00107
5	2028	Building -	Interior Bu	Tool Truck	Off-highwa	Diesel	600	0.59	120	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001096	0.005569	25.13648	6.63E-05	0.00033	0.00032	0.000469
5	2028	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	120	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.001096	0.005569	25.13648	6.63E-05	0.00033	0.00032	0.000469
5	2028	Building -	Roofing	High Lift	Rough Ter	Diesel	100	0.59	120	2.25E-01	1.02E+00	5.96E+02	1.60E-03	3.74E-02	3.63E-02	2.09E-02	0.001758	0.007947	4.65219	1.25E-05	0.000292	0.000283	0.000163
5	2028	Building -	Roofing	Man Lift (Fascia Construction)	Rough Ter	Diesel	75	0.21	120	3.06E-01	2.61E+00	5.96E+02	1.60E-03	3.19E-02	3.10E-02	6.42E-02	0.000637	0.005428	1.241615	3.34E-06	6.65E-05	6.45E-05	0.000134
5	2028	Building -	Roofing	Material Deliveries	Off-highwa	Diesel	600	0.59	8	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	7.3E-05	0.000371	1.675765	4.42E-06	2.2E-05	2.13E-05	3.12E-05
5	2028	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	12	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.00011	0.000557	2.513648	6.63E-06	3.3E-05	3.2E-05	4.69E-05
5	2028	Building -	Security &	High Lift	Rough Ter	Diesel	100	0.59	320	2.25E-01	1.02E+00	5.96E+02	1.60E-03	3.74E-02	3.63E-02	2.09E-02	0.004687	0.021192	12.40584	3.32E-05	0.000778	0.000755	0.000436
5	2028	Building -	Security &	Tool Truck	Off-highwa	Diesel	600	0.59	80	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.00073	0.003713	16.75765	4.42E-05	0.00022	0.000213	0.000312
5	2028	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	4.06E-02	1.86E-01	5.31E+02	1.41E-03	1.00E-02	9.74E-03	1.40E-02	0.001385	0.006331	18.12187	4.81E-05	0.000343	0.000332	0.000478
5	2028	Building -	Structural	Fork Truck	Other Con	Diesel	100	0.59	120	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.002544	0.008661	4.651995	1.26E-05	0.000395	0.000383	0.000229
5	2028	Building -	Structural	Tool Truck	Off-highwa	Diesel	600	0.59	60	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000548	0.002785	12.56824	3.31E-05	0.000165	0.00016	0.000234
5	2028	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highwa	Diesel	600	0.59	16	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000146	0.000743	3.35153	8.84E-06	4.4E-05	4.27E-05	6.25E-05
6	2028	Access Roa	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	2.898375	7.28E-02	2.27E-01	5.37E+02	1.42E-03	1.73E-02	1.67E-02	1.15E-02	2.4E-05	7.48E-05	0.177077	4.69E-07	5.7E-06	5.52E-06	3.8E-06
6	2028	Access Roa	Asphalt Pl	Dump Truck	Off-highwa	Diesel	600	0.59	10.43872	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	9.53E-05	0.000484	2.186605	5.76E-06	2.87E-05	2.79E-05	4.08E-05
6	2028	Access Roa	Asphalt Pl	Other General Equipment	Other Con	Diesel	175	0.43	5.79675	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	7.01E-05	0.000203	0.258094	6.97E-07	1.71E-05	1.66E-05	1.19E-05
6	2028	Access Roa	Asphalt Pl	Pickup Truck	Off-highwa	Diesel	600	0.59	2.898375	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	2.65E-05	0.000135	0.607124	1.6E-06	7.97E-06	7.73E-06	1.13E-05
6	2028	Access Roa	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	2.898375	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	2.48E-05	0.000175	0.11237	2.98E-07	4.72E-06	4.58E-06	2.33E-06
6	2028	Access Roa	Asphalt Pl	Skid Steer Loader	Skid Steer	Diesel	75	0.21	2.898375	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.000123	0.000182	0.034956	1.06E-07	1.59E-05	1.54E-05	2.27E-05
6	2028	Access Roa	Asphalt Pl	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	3.70992	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.70E-01	1.65E-01	3.52E-01	8.98E-05	0.000227	0.0359	1.32E-07	1.03E-05	9.96E-06	2.12E-05
6	2028	Access Roa	Clearing a	Chain Saw	Other Con	Diesel	11	0.7	7.2	2.46E+00	4.18E+00	5.94E+02	2.18E-03	2.39E-01	2.32E-01	8.38E-01	0.00015	0.000256	0.036286	1.33E-07	1.46E-05	1.41E-05	5.12E-05
6	2028	Access Roa	Clearing a	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	7.2	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.000111	0.000379	0.203426	5.5E-07	1.73E-05	1.67E-05	1E-05
6	2028	Access Roa	Clearing a	Pickup Truck	Off-highwa	Diesel	600	0.59	9.6	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	8.77E-05	0.000446	2.010918	5.3E-06	2.64E-05	2.56E-05	3.75E-05
6	2028	Access Roa	Concrete F	Air Compressor	Other Con	Diesel	100	0.43	7.7288	3.26E-01	1.11E+00	5.96E+02	1.61E-03	5.06E-02	4.91E-02	2.94E-02	0.000119	0.000407	0.218367	5.9E-07	1.85E-05	1.8E-05	1.08E-05
6	2028	Access Roa	Concrete F	Concrete Saws	Other Con	Diesel	40	0.59	7.7288	2.79E-01	2.53E+00	5.96E+02	1.57E-03	2.05E-02	1.98E-02	9.25E-02	5.61E-05	0.000509	0.119809	3.15E-07	4.11E-06	3.99E-06	1.86E-05
6	2028	Access Roa	Concrete F	Concrete Truck	Off-highwa	Diesel	600	0.59	32.20333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000294	0.001495	6.745653	1.78E-05	8.86E-05	8.59E-05	0.000126
6	2028	Access Roa	Concrete F	Other General Equipment	Other Con	Diesel	175	0.43	15.4576	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000187	0.00054	0.688232	1.86E-06	4.56E-05	4.42E-05	3.18E-05
6	2028	Access Roa	Concrete F	Pickup Truck	Off-highwa	Diesel	600	0.59	23.1864	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000212	0.001076	4.85687	1.28E-05	6.38E-05	6.19E-05	9.06E-05
6	2028	Access Roa	Concrete F	Rubber Tired Loader	Tractors/L	Diesel	175	0.59	7.7288	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.000499	0.000961	0.550775	1.56E-06	0.000116	0.000113	0.000125
6	2028	Access Roa	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	7.7288	7.28E-02	2.27E-01	5.37E+02	1.42E-03	1.73E-02	1.67E-02	1.15E-02	6.41E-05	0.000199	0.472193	1.25E-06	1.52E-05	1.47E-05	1.01E-05
6	2028	Access Roa	Concrete F	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	7.7288	1.49E+00	3.76E+00	5.95E+02	2.19E-03	1.70E-01	1.65E-01	3.52E-01	0.000187	0.000473	0.074789	2.75E-07	2.14E-05	2.08E-05	4.42E-05
6	2028	Access Roa	Curbing	Concrete Truck	Off-highwa	Diesel	600	0.59	25.32	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000231	0.001175	5.303796	1.4E-05	6.97E-05	6.76E-05	9.89E-05
6	2028	Access Roa	Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	25.32	7.28E-02	2.27E-01	5.37E+02	1.42E-03	1.73E-02	1.67E-02	1.15E-02	0.00021	0.000653	1.546931	4.1E-06	4.98E-05	4.83E-05	3.32E-05
6	2028	Access Roa	Curbing	Other General Equipment	Other Con	Diesel	175	0.43	25.32	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000306	0.000885	1.127344	3.05E-06	7.47E-05	7.24E-05	5.21E-05
6	2028	Access Roa	Curbing	Pickup Truck	Off-highwa	Diesel	600	0.59	25.32	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000231	0.001175	5.303796	1.4E-05	6.97E-05	6.76E-05	9.89E-05
6	2028	Access Roa	Drainage -	Dozer	Crawler Tr	Diesel	175	0.59	20.576	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	0.00015	0.000488	1.257105	3.32E-06	3.49E-05	3.38E-05	2.41E-05
6	2028	Access Roa	Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	20.576	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000188	0.000955	4.310068	1.14E-05	5.66E-05	5.49E-05	8.04E-05
6	2028	Access Roa	Drainage -	Excavator	Excavators	Diesel	175	0.59	20.576	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	0.000129	0.000425	1.257114	3.32E-06	2.94E-05	2.85E-05	2.12E-05
6	2028	Access Roa	Drainage -	Loader	Tractors/L	Diesel	175	0.59	20.576	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.00133	0.002559	1.466301	4.15E-06	0.000309	0.0003	0.000333
6	2028	Access Roa	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	20.576	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000249	0.000719	0.916123	2.47E-06	6.07E-05	5.89E-05	4.23E-05
6	2028	Access Roa	Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	20.576	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000188	0.000955	4.310068	1.14E-05	5.66E-05	5.49E-05	8.04E-05
6	2028	Access Roa	Drainage -	Roller	Rollers100	Diesel	100	0.59	20.576	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	0.000176	0.001244	0.79773	2.12E-06	3.35E-05	3.25E-05	1.65E-05
6	2028	Access Roa	Drainage -	Dump Truck	Off-highwa	Diesel	600	0.59	11.43111	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000104	0.000531	2.394482	6.31E-06	3.14E-05	3.05E-05	4.46E-05
6	2028	Access Roa	Drainage -	Loader	Tractors/L	Diesel	175	0.59	11.43111	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.000739	0.001422	0.814612	2.3E-06	0.000172	0.000167	0.000185
6	2028	Access Roa	Drainage -	Other General Equipment	Other Con	Diesel	175	0.43	11.43111	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000138	0.0004	0.508957	1.37E-06	3.37E-05	3.27E-05	2.35E-05
6	2028	Access Roa	Drainage -	Pickup Truck	Off-highwa	Diesel	600	0.59	11.43111	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000104	0.000531	2.394482	6.31E-06	3.14E-05	3.05E-05	4.46E-05
6	2028	Access Roa	Drainage -	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	11.43111	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000367	0.000469	0.184021	5.21E-07	5.27E-05	5.11E-05	5.18E-05
6	2028	Access Roa	Dust Contr	Water Truck	Off-highwa	Diesel	600	0.59	2160	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.019722	0.10025	452.4566	0.001193	0.005942	0.005764	0.008437
6	2028	Access Roa	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	12.88133	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	9.38E-05	0.000305	0.786994	2.08E-06	2.18E-05	2.12E-05	1.51E-05
6	2028	Access Roa	Excavation	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	12.88133	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000118	0.000598	2.698261	7.11E-06	3.54E-05	3.44E-05	5.03E-05
6	2028	Access Roa	Excavation	Pickup Truck	Off-highwa	Diesel	600	0.59	12.88133	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000118	0.000598	2.698261	7.11E-06	3.54E-05	3.44E-05	5.03E-05
6	2028	Access Roa	Excavation	Roller	Rollers100	Diesel	100	0.59	5.945231	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	5.08E-05	0.000359	0.230496	6.11E-07	9.69E-06	9.4E-06	4.77E-06
6	2028	Access Roa	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	9.661	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	7.03E-05	0.000229	0.590246	1.56E-06	1.64E-05	1.59E-05	1.13E-05
6	2028	Access Roa	Excavation	Dump Truck (12 cy)	Off-highwa	Diesel	600	0.59	25.76267	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000235	0.001196	5.396522	1.42E-05	7.09E-05	6.87E-05	0.000101
6	2028	Access Roa	Excavation	Excavator	Excavators	Diesel	175	0.59	7.7288	5.52E-02	1.81E-01	5.37E+02	1.42E-03	1.26E-02	1.22E-02	9.05E-03	4.85E-05	0.000159	0.4722	1.25E-06	1.1E-05	1.07E-05	7.96E-06
6	2028	Access Roa	Excavation	Pickup Truck	Off-highwa	Diesel	600	0.59	7.7288	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	7.06E-05	0.000359	1.618957	4.27E-06	2.13E-05	2.06E-05	3.02E-05
6	2028	Access Roa	Excavation	Roller	Rollers100	Diesel	100	0.59	7.7288	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	6.6E-05	0.000467	0.299645	7.95E-07	1.26E-05	1.22E-05	6.2E-06
6	2028	Access Roa	Excavation	Scraper	Scrapers6(	Diesel	600	0.59	9.661	1.10E-01	3.00E-01	5.37E+02	1.45E-03	2.15E-02	2.09E-02	2.04E-02	0.000414	0.001131	2.02358	5.45E-06	8.12E-05	7.88E-05	7.7E-05
6	2028	Access Roa	Excavation	Dozer	Crawler Tr	Diesel	175	0.59	3.637176	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	2.65E-05	8.62E-05	0.222216	5.87E-07	6.16E-06	5.98E-06	4.26E-06
6	2028	Access Roa	Fencing	Concrete Truck	Off-highwa	Diesel	600	0.59	7.033333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	6.42E-05	0.000326	1.473277	3.88E-06	1.93E-05	1.88E-05	2.75E-05
6	2028	Access Roa	Fencing	Dump Truck	Off-highwa	Diesel	600	0.59	28.13333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000257	0.001306	5.893107	1.55E-05	7.74E-05	7.51E-05	0.00011
6	2028	Access Roa	Fencing	Other General Equipment	Other Con	Diesel	175	0.43	28.13333	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.00034	0.000984	1.252604	3.38E-06	8.3E-05	8.05E-05	5.78E-05
6	2028	Access Roa	Fencing	Pickup Truck	Off-highwa	Diesel	600	0.59	28.13333	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000257	0.001306	5.893107	1.55E-05	7.74E-05	7.51E-05	0.00011
6	2028	Access Roa	Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	28.13333	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.001189	0.001769	0.339303	1.03E-06	0.000154	0.00015	0.00022
6	2028	Access Roa	Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	28.13333	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.000904	0.001154	0.452898	1.28E-06	0.00013	0.000126	0.000128
6	2028	Access Roa	Grading	Dozer	Crawler Tr	Diesel	175	0.59	3.069	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	2.23E-05	7.27E-05	0.187503	4.96E-07	5.2E-06	5.04E-06	3.6E-06
6	2028	Access Roa	Grading	Grader	Graders30	Diesel	300	0.59	3.069	2.80E-02	1.31E-01	5.37E+02	1.42E-03	8.01E-03	7.77E-03	1.08E-02	1.68E-05	7.84E-05	0.321432	8.49E-07	4.79E-06	4.65E-06	6.49E-06
6	2028	Access Roa	Grading	Roller	Rollers100	Diesel	100	0.59	3.069	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	2.62E-05	0.000186	0.118985	3.16E-07	5E-06	4.85E-06	2.46E-06
6	2028	Access Roa	Hydroseed	Hydroseeder	Other Con	Diesel	600	0.59	2.7649	3.46E-01	8.05E-01	5.37E+02	1.52E-03	5.65E-02	5.48E-02	4.96E-02	0.000373	0.000869	0.579041	1.64E-06	6.1E-05	5.91E-05	5.35E-05
6	2028	Access Roa	Hydroseed	Off-Road Truck	Off-highwa	Diesel	600	0.59	2.7649	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	2.52E-05	0.000128	0.579165	1.53E-06	7.61E-06	7.38E-06	1.08E-05
6	2028	Access Roa	Markings	Flatbed Truck	Off-highwa	Diesel	600	0.59	47.74629	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000436	0.002216	10.00144	2.64E-05	0.000131	0.000127	0.000186
6	2028	Access Roa	Markings	Other General Equipment	Other Con	Diesel	175	0.43	47.74629	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000578	0.001669	2.125848	5.74E-06	0.000141	0.000137	9.82E-05
6	2028	Access Roa	Markings	Pickup Truck	Off-highwa	Diesel	600	0.59	47.74629	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000436	0.002216	10.00144	2.64E-05	0.000131	0.000127	0.000186
6	2028	Access Roa	Sidewalks	Concrete Truck	Off-highwa	Diesel	600	0.59	50.64	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000462	0.00235	10.60759	2.8E-05	0.000139	0.000135	0.000198
6	2028	Access Roa	Sidewalks	Dump Truck	Off-highwa	Diesel	600	0.59	50.64	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000462	0.00235	10.60759	2.8E-05	0.000139	0.000135	0.000198
6	2028	Access Roa	Sidewalks	Pickup Truck	Off-highwa	Diesel	600	0.59	50.64	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000462	0.00235	10.60759	2.8E-05	0.000139	0.000135	0.000198
6	2028	Access Roa	Sidewalks	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	50.64	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.001628	0.002078	0.815216	2.31E-06	0.000233	0.000226	0.00023
6	2028	Access Roa	Sidewalks	Vibratory Compactor	Plate Com	Diesel	6	0.43	50.64	2.50E+00	4.19E+00	5.88E+02	2.16E-03	2.48E-01	2.41E-01	8.33E-01	0.00036	0.000603	0.084681	3.11E-07	3.58E-05	3.47E-05	0.00012
6	2028	Access Roa	Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	2.4	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	2.9E-05	8.39E-05	0.106857	2.89E-07	7.08E-06	6.86E-06	4.93E-06
6	2028	Access Roa	Soil Erosio	Pickup Truck	Off-highwa	Diesel	600	0.59	4.8	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	4.38E-05	0.000223	1.005459	2.65E-06	1.32E-05	1.28E-05	1.87E-05

6	2028	Access Ro	Soil Erosio	Pumps	Other Con	Diesel	11	0.43	2.4	2.46E+00	4.18E+00	5.94E+02	2.18E-03	2.39E-01	2.32E-01	8.38E-01	3.08E-05	5.23E-05	0.00743	2.73E-08	2.99E-06	2.9E-06	1.05E-05
6	2028	Access Ro	Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	2.4	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	7.72E-05	9.85E-05	0.038636	1.09E-07	1.11E-05	1.07E-05	1.09E-05
6	2028	Access Ro	Street Ligh	Dump Truck	Off-highw	Diesel	600	0.59	16.8	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000153	0.00078	3.519107	9.28E-06	4.62E-05	4.48E-05	6.56E-05
6	2028	Access Ro	Street Ligh	Loader	Tractors/L	Diesel	175	0.59	16.8	5.68E-01	1.09E+00	6.26E+02	1.77E-03	1.32E-01	1.28E-01	1.42E-01	0.001086	0.002089	1.197213	3.39E-06	0.000253	0.000245	0.000272
6	2028	Access Ro	Street Ligh	Other General Equipment	Other Con	Diesel	175	0.43	16.8	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0.000203	0.000587	0.748001	2.02E-06	4.95E-05	4.81E-05	3.45E-05
6	2028	Access Ro	Street Ligh	Pickup Truck	Off-highw	Diesel	600	0.59	16.8	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000153	0.00078	3.519107	9.28E-06	4.62E-05	4.48E-05	6.56E-05
6	2028	Access Ro	Street Ligh	Skid Steer Loader	Skid Steer	Diesel	75	0.21	16.8	2.44E+00	3.62E+00	6.95E+02	2.10E-03	3.16E-01	3.07E-01	4.51E-01	0.00071	0.001057	0.202617	6.13E-07	9.22E-05	8.95E-05	0.000132
6	2028	Access Ro	Street Ligh	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	16.8	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0.00054	0.000689	0.270451	7.66E-07	7.74E-05	7.51E-05	7.62E-05
6	2028	Access Ro	Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	4.881474	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	3.55E-05	0.000116	0.298237	7.88E-07	8.27E-06	8.02E-06	5.72E-06
6	2028	Access Ro	Subbase P	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	34.35111	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0.000314	0.001594	7.195549	1.9E-05	9.45E-05	9.17E-05	0.000134
6	2028	Access Ro	Subbase P	Pickup Truck	Off-highw	Diesel	600	0.59	4.881474	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	4.46E-05	0.000227	1.022525	2.7E-06	1.34E-05	1.3E-05	1.91E-05
6	2028	Access Ro	Subbase P	Roller	Rollers10C	Diesel	100	0.59	4.756308	1.31E-01	9.30E-01	5.96E+02	1.58E-03	2.51E-02	2.43E-02	1.23E-02	4.06E-05	0.000288	0.184402	4.89E-07	7.75E-06	7.52E-06	3.82E-06
6	2028	Access Ro	Topsoil Pla	Dozer	Crawler Tr	Diesel	175	0.59	6.82	6.40E-02	2.08E-01	5.37E+02	1.42E-03	1.49E-02	1.44E-02	1.03E-02	4.97E-05	0.000162	0.416673	1.1E-06	1.16E-05	1.12E-05	7.99E-06
6	2028	Access Ro	Topsoil Pla	Dump Truck	Off-highw	Diesel	600	0.59	6.82	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	6.23E-05	0.000317	1.42859	3.77E-06	1.88E-05	1.82E-05	2.66E-05
6	2028	Access Ro	Topsoil Pla	Pickup Truck	Off-highw	Diesel	600	0.59	6.82	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	6.23E-05	0.000317	1.42859	3.77E-06	1.88E-05	1.82E-05	2.66E-05
6	2028	Access Ro	Tree Plant	Flatbed Truck	Off-highw	Diesel	600	0.59	0	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0	0	0	0	0	0	0
6	2028	Access Ro	Tree Plant	Other General Equipment	Other Con	Diesel	175	0.43	0	1.46E-01	4.22E-01	5.37E+02	1.45E-03	3.55E-02	3.45E-02	2.48E-02	0	0	0	0	0	0	0
6	2028	Access Ro	Tree Plant	Pickup Truck	Off-highw	Diesel	600	0.59	0	2.34E-02	1.19E-01	5.37E+02	1.42E-03	7.05E-03	6.84E-03	1.00E-02	0	0	0	0	0	0	0
6	2028	Access Ro	Tree Plant	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	0	1.39E+00	1.77E+00	6.95E+02	1.97E-03	1.99E-01	1.93E-01	1.96E-01	0	0	0	0	0	0	0
																Totals	**0.322691**	**1.198882**	**3445.847**	**0.009113**	**0.073912**	**0.071695**	**0.0889**

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

																						MOVES ONROAD Emissions Factors (g/mile)							
																						7	10	13	11	12	14	5	8
Scenario II	Year	Project	Equipmen	Equipment Category	On-road A	Lookup	Fuel	Roadway T	Round Trip	Distance fo	Number o	Number o	Number o	Project Ler	Project Wi	Project Ar	Building H	Open Spac	Number o	Activity Ra	VMT	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4
1	2028	Taxiways	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1401	27	--	--	--	--	--	549	2.106583	3.578527	0.005196	0.050547	0.046503	0.145679	1555.883	0.018172
1	2028	Taxiways	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1401	27	--	--	--	--	--	8747	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
1	2028	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1401	27	--	--	--	--	--	778	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
1	2028	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	1401	27	--	--	--	--	--	4665	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
1	2028	Taxiways	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	75.9	75.9	193	--	--	--	--	--	--	--	439461	2.400919	0.037571	0.001957	0.001863	0.001648	0.051642	294.5739	0.00601
2	2028	Taxiways	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	5382	24	--	--	--	--	--	1874	2.106583	3.578527	0.005196	0.050547	0.046503	0.145679	1555.883	0.018172
2	2028	Taxiways	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	2	--	193	5382	24	--	--	--	--	--	29870	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
2	2028	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	5382	24	--	--	--	--	--	2655	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
2	2028	Taxiways	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	2	--	193	5382	24	--	--	--	--	--	15931	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
2	2028	Taxiways	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	267.3	267.3	193	--	--	--	--	--	--	--	1547667	2.400919	0.037571	0.001957	0.001863	0.001648	0.051642	294.5739	0.00601
3	2028	Demolitio	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	309	168	--	--	--	--	--	3204	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
3	2028	Demolitio	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	102.3	102.3	193	--	--	--	--	--	--	--	592317	2.400919	0.037571	0.001957	0.001863	0.001648	0.051642	294.5739	0.00601
4	2028	Apron (GA	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	258	168	--	--	--	--	--	629	2.106583	3.578527	0.005196	0.050547	0.046503	0.145679	1555.883	0.018172
4	2028	Apron (GA	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	258	168	--	--	--	--	--	10023	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
4	2028	Apron (GA	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	258	168	--	--	--	--	--	891	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
4	2028	Apron (GA	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	258	168	--	--	--	--	--	5346	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
4	2028	Apron (GA	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	76	76	193	--	--	--	--	--	--	--	440040	2.400919	0.037571	0.001957	0.001863	0.001648	0.051642	294.5739	0.00601
5	2028	Building -	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	2313	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
5	2028	Building -	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	1233	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
5	2028	Building -	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	386.1	386.1	258	--	--	--	--	--	--	--	2988414	2.400919	0.037571	0.001957	0.001863	0.001648	0.051642	294.5739	0.00601
5	2028	Building -	Tractor Tr	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.106583	3.578527	0.005196	0.050547	0.046503	0.145679	1555.883	0.018172
6	2028	Access Ro	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	633	33	--	--	--	--	--	303	2.106583	3.578527	0.005196	0.050547	0.046503	0.145679	1555.883	0.018172
6	2028	Access Ro	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	633	33	--	--	--	--	--	4831	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
6	2028	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	633	33	--	--	--	--	--	429	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
6	2028	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	193	633	33	--	--	--	--	--	2576	1.202134	1.599537	0.003231	0.019046	0.017522	0.074911	966.8415	0.014329
6	2028	Access Ro	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	768.9	768.9	193	--	--	--	--	--	--	--	4451931	2.400919	0.037571	0.001957	0.001863	0.001648	0.051642	294.5739	0.00601

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario II	Year	Project	Fugitive Sc	Number of Months	CO	NOx	SO2	PM10	VOC
1	2028	Taxiways	Asphalt Dr	9	0	0	0	0	0.05
1	2028	Taxiways	Asphalt St	9	0.0915	0.0057	0.001052	0.00625	0.002835
1	2028	Taxiways	Material N	9	0	0	0	0.0179	0
1	2028	Taxiways	Material N	9	0	0	0	0.0561	0
1	2028	Taxiways	Soil Handl	9	0	0	0	0.0107	0
1	2028	Taxiways	Unstabiliz	9	0	0	0	1.14E-08	0
2	2028	Taxiways	Asphalt Dr	9	0	0	0	0	0.05
2	2028	Taxiways	Asphalt St	9	0.31255	0.0195	0.003591	0.0214	0.0097
2	2028	Taxiways	Concrete I	9	0	0	0	0.1105	0
2	2028	Taxiways	Material N	9	0	0	0	0.02685	0
2	2028	Taxiways	Material N	9	0	0	0	0.09125	0
2	2028	Taxiways	Soil Handl	9	0	0	0	0.03655	0
2	2028	Taxiways	Unstabiliz	9	0	0	0	3.91E-08	0
3	2028	Demolitio	Material N	9	0	0	0	0.004479	0
3	2028	Demolitio	Material N	9	0	0	0	0.0144	0
3	2028	Demolitio	Soil Handl	9	0	0	0	0.0147	0
3	2028	Demolitio	Unstabiliz	9	0	0	0	1.57E-08	0
4	2028	Apron (GA	Asphalt Dr	9	0	0	0	0	0.05
4	2028	Apron (GA	Asphalt St	9	0.10485	0.00655	0.001205	0.0072	0.003248
4	2028	Apron (GA	Concrete I	9	0	0	0	0.0371	0
4	2028	Apron (GA	Material N	9	0	0	0	0.0179	0
4	2028	Apron (GA	Material N	9	0	0	0	0.0547	0
4	2028	Apron (GA	Soil Handl	9	0	0	0	0.01225	0
4	2028	Apron (GA	Unstabiliz	9	0	0	0	1.31E-08	0
5	2028	Building -	Concrete I	12	0	0	0	0.00855	0
5	2028	Building -	Material N	12	0	0	0	0.01195	0

5	2028	Building - :	Material M	12	0	0	0	0.03535	0
6	2028	Access Roa	Asphalt Dr	9	0	0	0	0	0.05
6	2028	Access Roa	Asphalt St	9	0.05055	0.003156	0.000581	0.003461	0.001565
6	2028	Access Roa	Concrete M	9	0	0	0	0.01785	0
6	2028	Access Roa	Material M	9	0	0	0	0.0179	0
6	2028	Access Roa	Material M	9	0	0	0	0.05455	0
6	2028	Access Roa	Soil Handli	9	0	0	0	0.0059	0
6	2028	Access Roa	Unstabilize	9	0	0	0	6.32E-09	0
			totals		**0.55945**	**0.034906**	**0.006428**	**0.69574**	**0.217348**

2028 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2028	NonRoad	0.322691	1.198882	0.009113367	0.073912	0.071695	0.0889	3445.847	--	--	
2028	OnRoad	27.81477	0.611901	0.022915986	0.023636	0.020986	0.603719	3502.121	0.070847	0.019239	
2028	Fugitive	0.55945	0.034906	0.0064275	0.69574	--	0.217348	--	--	--	
2028	TOTAL	28.69691	1.845689	0.038456854	0.793289	0.092681	0.909967	6947.967	0.070847	0.019239	6955.05

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)

MOVES ONROAD Emissions (tpy)

9	7	10	13	11	12	14	5	8	9
N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
0.002802	0.001275	0.002166	3.14E-06	3.06E-05	2.81E-05	8.82E-05	0.941577	1.1E-05	1.7E-06
0.003286	0.011591	0.015423	3.12E-05	0.000184	0.000169	0.000722	9.322254	0.000138	3.17E-05
0.003286	0.001031	0.001372	2.77E-06	1.63E-05	1.5E-05	6.42E-05	0.829166	1.23E-05	2.82E-06
0.003286	0.006182	0.008225	1.66E-05	9.79E-05	9.01E-05	0.000385	4.971798	7.37E-05	1.69E-05
0.001638	1.163066	0.0182	0.000948	0.000902	0.000798	0.025017	142.6991	0.002912	0.000794
0.002802	0.004352	0.007392	1.07E-05	0.000104	9.61E-05	0.000301	3.214054	3.75E-05	5.79E-06
0.003286	0.039582	0.052667	0.000106	0.000627	0.000577	0.002467	31.83443	0.000472	0.000108
0.003286	0.003518	0.004681	9.46E-06	5.57E-05	5.13E-05	0.000219	2.829608	4.19E-05	9.62E-06
0.003286	0.021111	0.028089	5.67E-05	0.000334	0.000308	0.001316	16.97872	0.000252	5.77E-05
0.001638	4.096016	0.064096	0.003338	0.003178	0.002811	0.088102	502.5489	0.010254	0.002795
0.003286	0.004246	0.005649	1.14E-05	6.73E-05	6.19E-05	0.000265	3.414714	5.06E-05	1.16E-05
0.001638	1.567611	0.024531	0.001278	0.001216	0.001076	0.033718	192.3335	0.003924	0.00107
0.002802	0.001461	0.002481	3.6E-06	3.5E-05	3.22E-05	0.000101	1.078783	1.26E-05	1.94E-06
0.003286	0.013282	0.017673	3.57E-05	0.00021	0.000194	0.000828	10.68217	0.000158	3.63E-05
0.003286	0.001181	0.001571	3.17E-06	1.87E-05	1.72E-05	7.36E-05	0.949597	1.41E-05	3.23E-06
0.003286	0.007084	0.009426	1.9E-05	0.000112	0.000103	0.000441	5.697584	8.44E-05	1.94E-05
0.001638	1.164599	0.018224	0.000949	0.000904	0.000799	0.02505	142.8871	0.002915	0.000795
0.003286	0.003065	0.004078	8.24E-06	4.86E-05	4.47E-05	0.000191	2.465116	3.65E-05	8.38E-06
0.003286	0.001634	0.002174	4.39E-06	2.59E-05	2.38E-05	0.000102	1.314089	1.95E-05	4.47E-06
0.001638	7.90906	0.123764	0.006446	0.006136	0.005428	0.170118	970.3794	0.019799	0.005397
0.002802	0.000372	0.000631	9.16E-07	8.91E-06	8.2E-06	2.57E-05	0.274412	3.21E-06	4.94E-07
0.002802	0.000704	0.001195	1.74E-06	1.69E-05	1.55E-05	4.87E-05	0.519668	6.07E-06	9.36E-07
0.003286	0.006402	0.008518	1.72E-05	0.000101	9.33E-05	0.000399	5.148715	7.63E-05	1.75E-05
0.003286	0.000568	0.000756	1.53E-06	9.01E-06	8.29E-06	3.54E-05	0.457214	6.78E-06	1.55E-06
0.003286	0.003414	0.004542	9.18E-06	5.41E-05	4.98E-05	0.000213	2.745413	4.07E-05	9.33E-06
0.001638	11.78237	0.184376	0.009603	0.009141	0.008087	0.25343	1445.604	0.029495	0.00804
Totals	**27.81477**	**0.611901**	**0.022916**	**0.023636**	**0.020986**	**0.603719**	**3502.121**	**0.070847**	**0.019239**

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 1:32:58 PM

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STUDY

Study Name

Austin Airport

Study Description

2029 Construction Schedule

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

										NONROAD Emission Factors g/-hp-hr							NONROAD Emissions (TPY)						
										3	6	2	9	7	8	11							
Scenario I	Year	Project	Constructi	Equipment	MovesLookup	Fuel	HP Averag	Load Facto	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)	PM10 (tpy	PM2.5 (tp	VOC Exhaust (tpy)
1	2029	Building -	Concrete F	Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	320	1.204004	1.655201	695.5091	0.00195	0.173153	0.167959	0.168602	0.008919	0.012261	5.152033	1.44E-05	0.001283	0.001244	0.001249
1	2029	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000492	0.002686	12.56826	3.31E-05	0.000155	0.00015	0.000227
1	2029	Building -	Concrete F	Fork Truck	Other Construction Ec	Diesel	100	0.59	320	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.005352	0.021879	12.40564	3.33E-05	0.000857	0.000831	0.000498
1	2029	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000655	0.003581	16.75768	4.41E-05	0.000206	0.0002	0.000303
1	2029	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000131	0.000716	3.351535	8.83E-06	4.13E-05	4E-05	6.06E-05
1	2029	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	8.19E-05	0.000448	2.09471	5.52E-06	2.58E-05	2.5E-05	3.79E-05
1	2029	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	3.28E-05	0.000179	0.837884	2.21E-06	1.03E-05	1E-05	1.52E-05
1	2029	Building -	Exterior W	Fork Truck	Other Construction Ec	Diesel	100	0.59	240	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.004014	0.016409	9.30423	2.5E-05	0.000643	0.000624	0.000373
1	2029	Building -	Exterior W	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	240	0.26762	2.585271	595.9726	0.001593	0.027378	0.026556	0.059924	0.001115	0.010772	2.483274	6.64E-06	0.000114	0.000111	0.00025
1	2029	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000492	0.002686	12.56826	3.31E-05	0.000155	0.00015	0.000227
1	2029	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000197	0.001074	5.027303	1.32E-05	6.19E-05	6.01E-05	9.09E-05
1	2029	Building -	Interior Bu	Fork Truck	Other Construction Ec	Diesel	100	0.59	960	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.016055	0.065638	37.21692	9.99E-05	0.002572	0.002494	0.001494
1	2029	Building -	Interior Bu	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	960	0.26762	2.585271	595.9726	0.001593	0.027378	0.026556	0.059924	0.00446	0.043089	9.933096	2.66E-05	0.000456	0.000443	0.000999
1	2029	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000983	0.005372	25.13651	6.62E-05	0.00031	0.0003	0.000455
1	2029	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000983	0.005372	25.13651	6.62E-05	0.00031	0.0003	0.000455
1	2029	Building -	Roofing	High Lift	Rough Terrain Forklift	Diesel	100	0.59	120	0.170347	0.968289	596.1103	0.001587	0.029969	0.029069	0.016298	0.001329	0.007557	4.652286	1.24E-05	0.000234	0.000227	0.000127
1	2029	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklift	Diesel	75	0.21	120	0.26762	2.585271	595.9726	0.001593	0.027378	0.026556	0.059924	0.000558	0.005386	1.241637	3.32E-06	5.7E-05	5.53E-05	0.000125
1	2029	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	6.55E-05	0.000358	1.675768	4.41E-06	2.06E-05	2E-05	3.03E-05
1	2029	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	9.83E-05	0.000537	2.513651	6.62E-06	3.1E-05	3E-05	4.55E-05
1	2029	Building -	Security &	High Lift	Rough Terrain Forklift	Diesel	100	0.59	320	0.170347	0.968289	596.1103	0.001587	0.029969	0.029069	0.016298	0.003545	0.020152	12.4061	3.3E-05	0.000624	0.000605	0.000339
1	2029	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000655	0.003581	16.75768	4.41E-05	0.000206	0.0002	0.000303
1	2029	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.033092	0.160772	531.0059	0.001406	0.0086	0.008342	0.012334	0.001129	0.005487	18.12203	4.8E-05	0.000293	0.000285	0.000421
1	2029	Building -	Structural	Fork Truck	Other Construction Ec	Diesel	100	0.59	120	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.002007	0.008205	4.652115	1.25E-05	0.000321	0.000312	0.000187
1	2029	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000492	0.002686	12.56826	3.31E-05	0.000155	0.00015	0.000227
1	2029	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000131	0.000716	3.351535	8.83E-06	4.13E-05	4E-05	6.06E-05
2	2029	Building -	Concrete F	Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	320	1.204004	1.655201	695.5091	0.00195	0.173153	0.167959	0.168602	0.008919	0.012261	5.152033	1.44E-05	0.001283	0.001244	0.001249
2	2029	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highway Trucks600	Diesel	600	0.59	60	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000492	0.002686	12.56826	3.31E-05	0.000155	0.00015	0.000227
2	2029	Building -	Concrete F	Fork Truck	Other Construction Ec	Diesel	100	0.59	320	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.005352	0.021879	12.40564	3.33E-05	0.000857	0.000831	0.000498
2	2029	Building -	Concrete F	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000655	0.003581	16.75768	4.41E-05	0.000206	0.0002	0.000303
2	2029	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	16	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000131	0.000716	3.351535	8.83E-06	4.13E-05	4E-05	6.06E-05
2	2029	Building -	Constructi	Survey Crew Trucks	Off-highway Trucks600	Diesel	600	0.59	10	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	8.19E-05	0.000448	2.09471	5.52E-06	2.58E-05	2.5E-05	3.79E-05
2	2029	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highway Trucks600	Diesel	600	0.59	4	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	3.28E-05	0.000179	0.837884	2.21E-06	1.03E-05	1E-05	1.52E-05
2	2029	Building -	Exterior W	Fork Truck	Other Construction Ec	Diesel	100	0.59	240	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.004014	0.016409	9.30423	2.5E-05	0.000643	0.000624	0.000373
2	2029	Building -	Exterior W	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	240	0.26762	2.585271	595.9726	0.001593	0.027378	0.026556	0.059924	0.001115	0.010772	2.483274	6.64E-06	0.000114	0.000111	0.00025
2	2029	Building -	Exterior W	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000492	0.002686	12.56826	3.31E-05	0.000155	0.00015	0.000227
2	2029	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	24	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000197	0.001074	5.027303	1.32E-05	6.19E-05	6.01E-05	9.09E-05
2	2029	Building -	Interior Bu	Fork Truck	Other Construction Ec	Diesel	100	0.59	960	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.016055	0.065638	37.21692	9.99E-05	0.002572	0.002494	0.001494
2	2029	Building -	Interior Bu	Man Lift	Rough Terrain Forklift	Diesel	75	0.21	960	0.26762	2.585271	595.9726	0.001593	0.027378	0.026556	0.059924	0.00446	0.043089	9.933096	2.66E-05	0.000456	0.000443	0.000999
2	2029	Building -	Interior Bu	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	120	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000983	0.005372	25.13651	6.62E-05	0.00031	0.0003	0.000455
2	2029	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	120	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000983	0.005372	25.13651	6.62E-05	0.00031	0.0003	0.000455
2	2029	Building -	Roofing	High Lift	Rough Terrain Forklift	Diesel	100	0.59	120	0.170347	0.968289	596.1103	0.001587	0.029969	0.029069	0.016298	0.001329	0.007557	4.652286	1.24E-05	0.000234	0.000227	0.000127
2	2029	Building -	Roofing	Man Lift (Fascia Construction)	Rough Terrain Forklift	Diesel	75	0.21	120	0.26762	2.585271	595.9726	0.001593	0.027378	0.026556	0.059924	0.000558	0.005386	1.241637	3.32E-06	5.7E-05	5.53E-05	0.000125
2	2029	Building -	Roofing	Material Deliveries	Off-highway Trucks600	Diesel	600	0.59	8	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	6.55E-05	0.000358	1.675768	4.41E-06	2.06E-05	2E-05	3.03E-05
2	2029	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highway Trucks600	Diesel	600	0.59	12	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	9.83E-05	0.000537	2.513651	6.62E-06	3.1E-05	3E-05	4.55E-05
2	2029	Building -	Security &	High Lift	Rough Terrain Forklift	Diesel	100	0.59	320	0.170347	0.968289	596.1103	0.001587	0.029969	0.029069	0.016298	0.003545	0.020152	12.4061	3.3E-05	0.000624	0.000605	0.000339
2	2029	Building -	Security &	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	80	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000655	0.003581	16.75768	4.41E-05	0.000206	0.0002	0.000303
2	2029	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.033092	0.160772	531.0059	0.001406	0.0086	0.008342	0.012334	0.001129	0.005487	18.12203	4.8E-05	0.000293	0.000285	0.000421
2	2029	Building -	Structural	Fork Truck	Other Construction Ec	Diesel	100	0.59	120	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.002007	0.008205	4.652115	1.25E-05	0.000321	0.000312	0.000187
2	2029	Building -	Structural	Tool Truck	Off-highway Trucks600	Diesel	600	0.59	60	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000492	0.002686	12.56826	3.31E-05	0.000155	0.00015	0.000227
2	2029	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highway Trucks600	Diesel	600	0.59	16	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000131	0.000716	3.351535	8.83E-06	4.13E-05	4E-05	6.06E-05
3	2029	Access Roa	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	4.68425	0.065376	0.208257	536.8005	0.00142	0.015231	0.014774	0.010497	3.49E-05	0.000111	0.286187	7.57E-07	8.12E-06	7.88E-06	5.6E-06
3	2029	Access Roa	Asphalt Pl	Dump Truck	Off-highway Trucks600	Diesel	600	0.59	16.87068	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000138	0.000755	3.533918	9.31E-06	4.35E-05	4.22E-05	6.39E-05
3	2029	Access Roa	Asphalt Pl	Other General Equipment	Other Construction Ec	Diesel	175	0.43	9.3685	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	9.46E-05	0.000282	0.417131	1.12E-06	2.29E-05	2.22E-05	1.6E-05
3	2029	Access Roa	Asphalt Pl	Pickup Truck	Off-highway Trucks600	Diesel	600	0.59	4.68425	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	3.84E-05	0.00021	0.981214	2.59E-06	1.21E-05	1.17E-05	1.77E-05
3	2029	Access Roa	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	4.68425	0.107665	0.909124	596.1259	0.001578	0.021121	0.020487	0.010897	3.28E-05	0.000277	0.181609	4.81E-07	6.43E-06	6.24E-06	3.32E-06
3	2029	Access Roa	Asphalt Pl	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	4.68425	2.296732	3.549123	694.7574	0.002087	0.295893	0.287016	0.421988	0.000187	0.000289	0.056502	1.7E-07	2.41E-05	2.33E-05	3.43E-05
3	2029	Access Roa	Asphalt Pl	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	5.99584	1.488865	3.762482	595.1518	0.002188	0.170484	0.16537	0.351645	0.000145	0.000367	0.05802	2.13E-07	1.66E-05	1.61E-05	3.43E-05
3	2029	Access Roa	Clearing a	Chain Saw	Other Construction Ec	Diesel	11	0.7	12	2.460678	4.183555	593.7556	0.002183	0.238948	0.23178	0.837843	0.000251	0.000426	0.060476	2.22E-07	2.43E-05	2.36E-05	8.53E-05

3	2029	Access Ro:	Clearing a	Chipper/Stump Grinder	Other Construction Ec	Diesel	100	0.43	12	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.000146	0.000598	0.339052	9.1E-07	2.34E-05	2.27E-05	1.36E-05
3	2029	Access Ro:	Clearing a	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	16	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000131	0.000716	3.351535	8.83E-06	4.13E-05	4E-05	6.06E-05
3	2029	Access Ro:	Concrete F	Air Compressor	Other Construction Ec	Diesel	100	0.43	12.4912	0.257143	1.051294	596.0884	0.0016	0.041189	0.039953	0.023925	0.000152	0.000622	0.352931	9.48E-07	2.44E-05	2.37E-05	1.42E-05
3	2029	Access Ro:	Concrete F	Concrete Saws	Other Construction Ec	Diesel	40	0.59	12.4912	0.278246	2.528487	595.8806	0.001569	0.020263	0.019655	0.092416	9.04E-05	0.000822	0.193634	5.1E-07	6.58E-06	6.39E-06	3E-05
3	2029	Access Ro:	Concrete F	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	52.04667	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000426	0.00233	10.90226	2.87E-05	0.000134	0.00013	0.000197
3	2029	Access Ro:	Concrete F	Other General Equipment	Other Construction Ec	Diesel	175	0.43	24.9824	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	0.000252	0.000751	1.112338	2.99E-06	6.11E-05	5.93E-05	4.26E-05
3	2029	Access Ro:	Concrete F	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	37.4736	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000307	0.001677	7.849631	2.07E-05	9.67E-05	9.38E-05	0.000142
3	2029	Access Ro:	Concrete F	Rubber Tired Loader	Tractors/Loaders/Bac	Diesel	175	0.59	12.4912	0.490102	0.973368	626.1882	0.001754	0.115067	0.111614	0.122803	0.000697	0.001384	0.890237	2.49E-06	0.000164	0.000159	0.000175
3	2029	Access Ro:	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	12.4912	0.065376	0.208257	536.8005	0.00142	0.015231	0.014774	0.010497	9.29E-05	0.000296	0.763157	2.02E-06	2.17E-05	2.1E-05	1.49E-05
3	2029	Access Ro:	Concrete F	Surfacing Equipment (Grooving)	Other Construction Ec	Diesel	25	0.59	12.4912	1.488865	3.762482	595.1518	0.002188	0.170484	0.16537	0.351645	0.000302	0.000764	0.120873	4.44E-07	3.46E-05	3.36E-05	7.14E-05
3	2029	Access Ro:	Curbing	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	33.76	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000277	0.001511	7.071739	1.86E-05	8.71E-05	8.45E-05	0.000128
3	2029	Access Ro:	Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	33.76	0.065376	0.208257	536.8005	0.00142	0.015231	0.014774	0.010497	0.000251	0.0008	2.062585	5.45E-06	5.85E-05	5.68E-05	4.03E-05
3	2029	Access Ro:	Curbing	Other General Equipment	Other Construction Ec	Diesel	175	0.43	33.76	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	0.000341	0.001015	1.50316	4.03E-06	8.26E-05	8.01E-05	5.76E-05
3	2029	Access Ro:	Curbing	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	33.76	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000277	0.001511	7.071739	1.86E-05	8.71E-05	8.45E-05	0.000128
3	2029	Access Ro:	Drainage -	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	27.328	0.059269	0.193919	536.8038	0.001417	0.013613	0.013204	0.009638	0.000184	0.000603	1.669629	4.41E-06	4.23E-05	4.11E-05	3E-05
3	2029	Access Ro:	Drainage -	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	27.328	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000224	0.001223	5.724422	1.51E-05	7.05E-05	6.84E-05	0.000104
3	2029	Access Ro:	Drainage -	Excavator	Excavators175	Diesel	175	0.59	27.328	0.051833	0.172817	536.8066	0.001415	0.011645	0.011296	0.008583	0.000161	0.000538	1.669638	4.4E-06	3.62E-05	3.51E-05	2.67E-05
3	2029	Access Ro:	Drainage -	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	27.328	0.490102	0.973368	626.1882	0.001754	0.115067	0.111614	0.122803	0.001524	0.003027	1.947643	5.46E-06	0.000358	0.000347	0.000382
3	2029	Access Ro:	Drainage -	Other General Equipment	Other Construction Ec	Diesel	175	0.43	27.328	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	0.000276	0.000822	1.216776	3.27E-06	6.68E-05	6.48E-05	4.66E-05
3	2029	Access Ro:	Drainage -	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	27.328	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000224	0.001223	5.724422	1.51E-05	7.05E-05	6.84E-05	0.000104
3	2029	Access Ro:	Drainage -	Roller	Rollers100	Diesel	100	0.59	27.328	0.107665	0.909124	596.1259	0.001578	0.021121	0.020487	0.010897	0.000191	0.001616	1.059508	2.8E-06	3.75E-05	3.64E-05	1.94E-05
3	2029	Access Ro:	Drainage -	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	15.18222	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000124	0.00068	3.180235	8.38E-06	3.92E-05	3.8E-05	5.75E-05
3	2029	Access Ro:	Drainage -	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	15.18222	0.490102	0.973368	626.1882	0.001754	0.115067	0.111614	0.122803	0.000847	0.001682	1.082024	3.03E-06	0.000199	0.000193	0.000212
3	2029	Access Ro:	Drainage -	Other General Equipment	Other Construction Ec	Diesel	175	0.43	15.18222	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	0.000153	0.000457	0.675987	1.81E-06	3.71E-05	3.6E-05	2.59E-05
3	2029	Access Ro:	Drainage -	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	15.18222	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000124	0.00068	3.180235	8.38E-06	3.92E-05	3.8E-05	5.75E-05
3	2029	Access Ro:	Drainage -	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	15.18222	1.204004	1.655201	695.5091	0.00195	0.173153	0.167959	0.168602	0.000423	0.000582	0.244435	6.85E-07	6.09E-05	5.9E-05	5.93E-05
3	2029	Access Ro:	Dust Contr	Water Truck	Off-highway Trucks60	Diesel	600	0.59	2880	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.023597	0.128922	603.2763	0.001589	0.007431	0.007208	0.010913
3	2029	Access Ro:	Excavatior	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	20.81867	0.059269	0.193919	536.8038	0.001417	0.013613	0.013204	0.009638	0.00014	0.000459	1.271935	3.36E-06	3.23E-05	3.13E-05	2.28E-05
3	2029	Access Ro:	Excavatior	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	20.81867	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000171	0.000932	4.360906	1.15E-05	5.37E-05	5.21E-05	7.89E-05
3	2029	Access Ro:	Excavatior	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	20.81867	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000171	0.000932	4.360906	1.15E-05	5.37E-05	5.21E-05	7.89E-05
3	2029	Access Ro:	Excavatior	Roller	Rollers100	Diesel	100	0.59	9.608615	0.107665	0.909124	596.1259	0.001578	0.021121	0.020487	0.010897	6.73E-05	0.000568	0.372527	9.86E-07	1.32E-05	1.28E-05	6.81E-06
3	2029	Access Ro:	Excavatior	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	15.614	0.059269	0.193919	536.8038	0.001417	0.013613	0.013204	0.009638	0.000105	0.000345	0.953952	2.52E-06	2.42E-05	2.35E-05	1.71E-05
3	2029	Access Ro:	Excavatior	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	41.63733	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000341	0.001864	8.721812	2.3E-05	0.000107	0.000104	0.000158
3	2029	Access Ro:	Excavatior	Excavator	Excavators175	Diesel	175	0.59	12.4912	0.051833	0.172817	536.8066	0.001415	0.011645	0.011296	0.008583	7.37E-05	0.000246	0.763165	2.01E-06	1.66E-05	1.61E-05	1.22E-05
3	2029	Access Ro:	Excavatior	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	12.4912	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000102	0.000559	2.616544	6.89E-06	3.22E-05	3.13E-05	4.73E-05
3	2029	Access Ro:	Excavatior	Roller	Rollers100	Diesel	100	0.59	12.4912	0.107665	0.909124	596.1259	0.001578	0.021121	0.020487	0.010897	8.75E-05	0.000739	0.484285	1.28E-06	1.72E-05	1.66E-05	8.85E-06
3	2029	Access Ro:	Excavatior	Scraper	Scrapers600	Diesel	600	0.59	15.614	0.089874	0.258601	536.7772	0.001439	0.018204	0.017658	0.017979	0.000548	0.001576	3.270529	8.77E-06	0.000111	0.000108	0.00011
3	2029	Access Ro:	Excavatior	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	5.878275	0.059269	0.193919	536.8038	0.001417	0.013613	0.013204	0.009638	3.97E-05	0.00013	0.359139	9.48E-07	9.11E-06	8.83E-06	6.45E-06
3	2029	Access Ro:	Fencing	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	9.377778	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	7.68E-05	0.00042	1.964372	5.18E-06	2.42E-05	2.35E-05	3.55E-05
3	2029	Access Ro:	Fencing	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	37.51111	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000307	0.001679	7.857488	2.07E-05	9.68E-05	9.39E-05	0.000142
3	2029	Access Ro:	Fencing	Other General Equipment	Other Construction Ec	Diesel	175	0.43	37.51111	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	0.000379	0.001128	1.670178	4.48E-06	9.17E-05	8.9E-05	6.4E-05
3	2029	Access Ro:	Fencing	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	37.51111	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000307	0.001679	7.857488	2.07E-05	9.68E-05	9.39E-05	0.000142
3	2029	Access Ro:	Fencing	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	37.51111	2.296732	3.549123	694.7574	0.002087	0.295893	0.287016	0.421988	0.001496	0.002311	0.45246	1.36E-06	0.000193	0.000187	0.000275
3	2029	Access Ro:	Fencing	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	37.51111	1.204004	1.655201	695.5091	0.00195	0.173153	0.167959	0.168602	0.001045	0.001437	0.603933	1.69E-06	0.00015	0.000146	0.000146
3	2029	Access Ro:	Grading	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	4.7397	0.059269	0.193919	536.8038	0.001417	0.013613	0.013204	0.009638	3.2E-05	0.000105	0.289576	7.65E-07	7.34E-06	7.12E-06	5.2E-06
3	2029	Access Ro:	Grading	Grader	Graders300	Diesel	300	0.59	4.7397	0.02483	0.123305	536.8004	0.001416	0.007398	0.007176	0.010376	2.3E-05	0.000114	0.496413	1.31E-06	6.84E-06	6.64E-06	9.6E-06
3	2029	Access Ro:	Grading	Roller	Rollers100	Diesel	100	0.59	4.7397	0.107665	0.909124	596.1259	0.001578	0.021121	0.020487	0.010897	3.32E-05	0.00028	0.183758	4.86E-07	6.51E-06	6.32E-06	3.36E-06
3	2029	Access Ro:	Hydroseec	Hydroseeder	Other Construction Ec	Diesel	600	0.59	4.27	0.298338	0.710908	536.7034	0.001503	0.049231	0.047754	0.043468	0.000497	0.001185	0.894277	2.5E-06	8.2E-05	7.96E-05	7.24E-05
3	2029	Access Ro:	Hydroseec	Off-Road Truck	Off-highway Trucks60	Diesel	600	0.59	4.27	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	3.5E-05	0.000191	0.894441	2.36E-06	1.1E-05	1.07E-05	1.62E-05
3	2029	Access Ro:	Markings	Flatbed Truck	Off-highway Trucks60	Diesel	600	0.59	77.16571	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000632	0.003454	16.16398	4.26E-05	0.000199	0.000193	0.000292
3	2029	Access Ro:	Markings	Other General Equipment	Other Construction Ec	Diesel	175	0.43	77.16571	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	0.000779	0.002321	3.435794	9.22E-06	0.000189	0.000183	0.000132
3	2029	Access Ro:	Markings	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	77.16571	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000632	0.003454	16.16398	4.26E-05	0.000199	0.000193	0.000292
3	2029	Access Ro:	Sidewalks	Concrete Truck	Off-highway Trucks60	Diesel	600	0.59	67.52	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000553	0.003023	14.14348	3.73E-05	0.000174	0.000169	0.000256
3	2029	Access Ro:	Sidewalks	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	67.52	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000553	0.003023	14.14348	3.73E-05	0.000174	0.000169	0.000256
3	2029	Access Ro:	Sidewalks	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	67.52	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000553	0.003023	14.14348	3.73E-05	0.000174	0.000169	0.000256
3	2029	Access Ro:	Sidewalks	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	67.52	1.204004	1.655201	695.5091	0.00195	0.173153	0.167959	0.168602	0.001882	0.002587	1.087079	3.05E-06	0.000271	0.000263	0.000264
3	2029	Access Ro:	Sidewalks	Vibratory Compactor	Plate Compactors6	Diesel	6	0.43	67.52	2.483815	4.184782	587.978	0.002162	0.244757	0.237415	0.83438	0.000477	0.000804	0.112907	4.15E-07	4.7E-05	4.56E-05	0.00016
3	2029	Access Ro:	Soil Erosio	Other General Equipment	Other Construction Ec	Diesel	175	0.43	4	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	4.04E-05	0.00012	0.1781	4.78E-07	9.78E-06	9.49E-06	6.82E-06
3	2029	Access Ro:	Soil Erosio	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	8	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	6.55E-05	0.000358	1.675768	4.41E-06	2.06E-05	2E-05	3.03E-05
3	2029	Access Ro:	Soil Erosio	Pumps	Other Construction Ec	Diesel	11	0.43	4	2.460678	4.183555	593.7556	0.002183	0.238948	0.23178	0.837843	5.13E-05	8.73E-05	0.012383	4.55E-08	4.98E-06	4.83E-06	1.75E-05
3	2029	Access Ro:	Soil Erosio	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	4	1.204004	1.655201	695.5091	0.00195	0.173153	0.167959	0.168602	0.000111	0.000153	0.0644	1.81E-07	1.6E-05	1.56E-05	1.56E-05
3	2029	Access Ro:	Street Ligh	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	22.4	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000184	0.001003	4.692149	1.24E-05	5.78E-05	5.61E-05	8.49E-05
3	2029	Access Ro:	Street Ligh	Loader	Tractors/Loaders/Bac	Diesel	175	0.59	22.4	0.490102	0.973368	626.1882	0.001754	0.115067	0.111614	0.122803	0.001249	0.002482	1.596429	4.47E-06	0.000293	0.000285	0.000313
3	2029	Access Ro:	Street Ligh	Other General Equipment	Other Construction Ec	Diesel	175	0.43	22.4	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	0.000226	0.000674	0.997357	2.68E-06	5.48E-05	5.31E-05	3.82E-05
3	2029	Access Ro:	Street Ligh	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	22.4	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000184	0.001003	4.692149	1.24E-05	5.78E-05	5.61E-05	8.49E-05
3	2029	Access Ro:	Street Ligh	Skid Steer Loader	Skid Steer Loaders75	Diesel	75	0.21	22.4	2.296732	3.549123	694.7574	0.002087	0.295893	0.287016	0.421988	0.000893	0.00138	0.270189	8.12E-07	0.000115	0.000112	0.000164
3	2029	Access Ro:	Street Ligh	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	22.4	1.204004	1.655201	695.5091	0.00195	0.173153	0.167959	0.168602	0.000624	0.000858	0.360642	1.01E-06	8.98E-05	8.71E-05	8.74E-05
3	2029	Access Ro:	Subbase P	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	7.889263	0.059269	0.193919	536.8038	0.001417	0.013613	0.013204	0.009638	5.32E-05	0.000174	0.482002	1.27E-06	1.22E-05	1.19E-05	8.65E-06
3	2029	Access Ro:	Subbase P	Dump Truck (12 cy)	Off-highway Trucks60	Diesel	600	0.59	55.51556	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0.000455	0.002485	11.6289	3.06E-05	0.000143	0.000139	0.00021
3	2029	Access Ro:	Subbase P	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	7.889263	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	6.46E-05	0.000353	1.652571	4.35E-06	2.04E-05	1.97E-05	2.99E-05
3	2029	Access Ro:	Subbase P	Roller	Rollers100	Diesel	100	0.59	7.686769	0.107665	0.909124	596.1259	0.001578	0.021121	0.020487	0.010897	5.38E-05	0.000454	0.298017	7.89E-07	1.06E-05	1.02E-05	5.45E-06
3	2029	Access Ro:	Topsoil Pla	Dozer	Crawler Tractor/Doze	Diesel	175	0.59	10.53333	0.059269	0.193919	536.8038	0.001417	0.013613	0.013204	0.009638	7.11E-05	0.000232	0.643544	1.7E-06	1.63E-05	1.58E-05	1.16E-05
3	2029	Access Ro:	Topsoil Pla	Dump Truck	Off-highway Trucks60	Diesel	600	0.59	10.53333	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	8.63E-05	0.000472	2.206427	5.81E-06	2.72E-05	2.64E-05	3.99E-05
3	2029	Access Ro:	Topsoil Pla	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	10.53333	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	8.63E-05	0.000472	2.206427	5.81E-06	2.72E-05	2.64E-05	3.99E-05
3	2029	Access Ro:	Tree Plant	Flatbed Truck	Off-highway Trucks60	Diesel	600	0.59	0	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0	0	0	0	0	0	0
3	2029	Access Ro:	Tree Plant	Other General Equipment	Other Construction Ec	Diesel	175	0.43	0	0.121776	0.362552	536.7719	0.001441	0.029478	0.028594	0.020568	0	0	0	0	0	0	0
3	2029	Access Ro:	Tree Plant	Pickup Truck	Off-highway Trucks60	Diesel	600	0.59	0	0.020997	0.114717	536.8019	0.001414	0.006612	0.006413	0.00971	0	0	0	0	0	0	0
3	2029	Access Ro:	Tree Plant	Tractors/Loader/Backhoe	Tractors/Loaders/Bac	Diesel	100	0.21	0	1.204004	1.655201	695.5091	0.00195	0.173153	0.167959	0.168602	0	0	0	0	0	0	0
																Totals	0.157303	0.70655	1359.393	0.003595	0.031576	0.030628	0.035167

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO_2, CH_4, and N_2O) Emission: Metric Ton

MOVES ONROAD Emissions Factors (g/mile)

7	10	13	11	12	14	5

Scenario II	Year	Project	Equipmen	Equipment Category	On-road Activity	Lookup	Fuel	Roadway T	Round Trip	Distance fo	Number o	Number o	Number o	Project Le	Project Wi	Project Are	Building H	Open Spac	Number o	Activity Ra	VMT	CO	NOx	SO2	PM10	PM2.5	VOC	CO2
1	2029	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	2313	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169
1	2029	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	--	1233	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169
1	2029	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	519.2	519.2	258	--	--	--	--	--	--	--	4018608	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448
1	2029	Building -	Tractor Tr	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	--	--	10000	--	--	--	0.0016	160	2.134457	3.667581	0.005293	0.055088	0.050681	0.152434	1584.593
2	2029	Building -	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--	2313	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169
2	2029	Building -	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--	1233	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169
2	2029	Building -	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	17.6	17.6	129	--	--	--	--	--	--	--	68112	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448
2	2029	Building -	Tractor Tr	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	0.0016	160	2.134457	3.667581	0.005293	0.055088	0.050681	0.152434	1584.593
3	2029	Access Ro	Asphalt 18	Combination Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	844	40	--	--	--	--	--	490	2.134457	3.667581	0.005293	0.055088	0.050681	0.152434	1584.593
3	2029	Access Ro	Cement M	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	844	40	--	--	--	--	--	7807	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169
3	2029	Access Ro	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	844	40	--	--	--	--	--	694	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169
3	2029	Access Ro	Dump Truc	Single Unit Short-haul Truck	Material Delivery	DieselUrb	Diesel	Urban Unr	40	5	1	--	258	844	40	--	--	--	--	--	4164	1.22083	1.655109	0.003289	0.024076	0.02215	0.082888	983.5169
3	2029	Access Ro	Passenger	Passenger Car	Employee Commute	GasolineU	Gasoline	Urban Unr	30	--	1025.2	1025.2	258	--	--	--	--	--	--	--	3935048	2.540732	0.045759	0.002001	0.001901	0.001682	0.055754	301.2448

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario II	Year	Project	Fugitive Sc	Number of Months	CO	NOx	SO2	PM10	VOC
1	2029	Building -	Concrete I	12	0	0	0	0.00855	0
1	2029	Building -	Material N	12	0	0	0	0.01195	0
1	2029	Building -	Material N	12	0	0	0	0.03535	0
2	2029	Building -	Concrete I	6	0	0	0	0.00855	0
2	2029	Building -	Material N	6	0	0	0	0.006	0
2	2029	Building -	Material N	6	0	0	0	0.01765	0
3	2029	Access Ro	Asphalt Dr	12	0	0	0	0	0.05
3	2029	Access Ro	Asphalt St	12	0.0817	0.0051	0.000939	0.0056	0.00253
3	2029	Access Ro	Concrete I	12	0	0	0	0.0289	0
3	2029	Access Ro	Material N	12	0	0	0	0.02395	0
3	2029	Access Ro	Material N	12	0	0	0	0.0731	0
3	2029	Access Ro	Soil Handli	12	0	0	0	0.00955	0
3	2029	Access Ro	Unstabiliz	12	0	0	0	1.36E-08	0
			Totals		**0.0817**	**0.0051**	**0.000939**	**0.22915**	**0.05253**

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2029 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2029	NonRoad	0.157303	0.70655	0.003595034	0.031575538	0.030628	0.035167	1359.393	--	--	
2029	OnRoad	22.495	0.443943	0.017771921	0.017385532	0.0154	0.49495	2686.601	0.05757	0.01474	
2029	Fugitive	0.0817	0.0051	0.0009385	0.229150014	--	0.05253	--	--	--	
2029	TOTAL	22.734	1.155593	0.022305454	0.278111084	0.046028	0.582646	4045.994	0.05757	0.01474	4051.512

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO2, CH4, and N2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)

MOVES ONROAD Emissions (tpy)										
8	9	7	10	13	11	12	14	5	8	9

CH4	N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
0.014721	0.003286	0.003113	0.00422	8.38E-06	6.14E-05	5.65E-05	0.000211	2.507633	3.75E-05	8.38E-06
0.014721	0.003286	0.001659	0.00225	4.47E-06	3.27E-05	3.01E-05	0.000113	1.336754	2E-05	4.47E-06
0.006472	0.001659	11.25489	0.202701	0.008865	0.008422	0.00745	0.246979	1334.448	0.028671	0.007347
0.018588	0.002802	0.000376	0.000647	9.34E-07	9.72E-06	8.94E-06	2.69E-05	0.279476	3.28E-06	4.94E-07
0.014721	0.003286	0.003113	0.00422	8.38E-06	6.14E-05	5.65E-05	0.000211	2.507633	3.75E-05	8.38E-06
0.014721	0.003286	0.001659	0.00225	4.47E-06	3.27E-05	3.01E-05	0.000113	1.336754	2E-05	4.47E-06
0.006472	0.001659	0.190761	0.003436	0.00015	0.000143	0.000126	0.004186	22.61777	0.000486	0.000125
0.018588	0.002802	0.000376	0.000647	9.34E-07	9.72E-06	8.94E-06	2.69E-05	0.279476	3.28E-06	4.94E-07
0.018588	0.002802	0.001153	0.001981	2.86E-06	2.98E-05	2.74E-05	8.23E-05	0.855894	1E-05	1.51E-06
0.014721	0.003286	0.010506	0.014244	2.83E-05	0.000207	0.000191	0.000713	8.463939	0.000127	2.83E-05
0.014721	0.003286	0.000934	0.001266	2.52E-06	1.84E-05	1.69E-05	6.34E-05	0.752398	1.13E-05	2.51E-06
0.014721	0.003286	0.005604	0.007597	1.51E-05	0.000111	0.000102	0.00038	4.51439	6.76E-05	1.51E-05
0.006472	0.001659	11.02086	0.198486	0.00868	0.008247	0.007296	0.241844	1306.701	0.028075	0.007194
	Totals	**22.495**	**0.443943**	**0.017772**	**0.017386**	**0.0154**	**0.49495**	**2686.601**	**0.05757**	**0.01474**

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 12/27/2021 1:35:55 PM

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STUDY

Study Name

Austin Airport

Study Description

2030 Construction Schedule

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

										NONROAD Emission Factors g/-hp-hr							NONROAD Emissions (TPY)						
										3	6	2	9	7	8	11							
Scenario I	Year	Project	Constructi	Equipment	MovesLoo	Fuel	HP Averag	Load Factc	Hours of A	CO	NOx	CO2	SO2	PM10	PM2.5	VOC	CO (tpy)	NOx (tpy)	CO2 (tpy)	SO2 (tpy)	PM10 (tpy	PM2.5 (tp	VOC Exhaust (tpy)
1	2030	Building -	Concrete F	Backhoe	Tractors/L	Diesel	100	0.21	320	1.038687	1.547273	695.5805	0.001933	0.149671	0.145181	0.144229	0.007694	0.011462	5.152561	1.43E-05	0.001109	0.001075	0.001068
1	2030	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highwa	Diesel	600	0.59	60	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000464	0.002637	12.56826	3.31E-05	0.00015	0.000145	0.000224
1	2030	Building -	Concrete F	Fork Truck	Other Con	Diesel	100	0.59	320	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	0.004068	0.020706	12.40594	3.31E-05	0.000681	0.000661	0.000396
1	2030	Building -	Concrete F	Tool Truck	Off-highwa	Diesel	600	0.59	80	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000618	0.003516	16.75768	4.41E-05	0.000199	0.000193	0.000298
1	2030	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	16	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000124	0.000703	3.351536	8.83E-06	3.99E-05	3.87E-05	5.97E-05
1	2030	Building -	Constructi	Survey Crew Trucks	Off-highwa	Diesel	600	0.59	10	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	7.73E-05	0.00044	2.09471	5.52E-06	2.49E-05	2.42E-05	3.73E-05
1	2030	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highwa	Diesel	600	0.59	4	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	3.09E-05	0.000176	0.837884	2.21E-06	9.97E-06	9.67E-06	1.49E-05
1	2030	Building -	Exterior W	Fork Truck	Other Con	Diesel	100	0.59	240	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	0.003051	0.01553	9.304457	2.48E-05	0.000511	0.000495	0.000297
1	2030	Building -	Exterior W	Man Lift	Rough Ter	Diesel	75	0.21	240	0.237794	2.569426	595.9823	0.001586	0.023765	0.023052	0.056571	0.000991	0.010706	2.483314	6.61E-06	9.9E-05	9.61E-05	0.000236
1	2030	Building -	Exterior W	Tool Truck	Off-highwa	Diesel	600	0.59	60	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000464	0.002637	12.56826	3.31E-05	0.00015	0.000145	0.000224
1	2030	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	24	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000185	0.001055	5.027304	1.32E-05	5.98E-05	5.8E-05	8.95E-05
1	2030	Building -	Interior Bu	Fork Truck	Other Con	Diesel	100	0.59	960	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	0.012205	0.062119	37.21783	9.93E-05	0.002043	0.001982	0.001189
1	2030	Building -	Interior Bu	Man Lift	Rough Ter	Diesel	75	0.21	960	0.237794	2.569426	595.9823	0.001586	0.023765	0.023052	0.056571	0.003963	0.042825	9.933257	2.64E-05	0.000396	0.000384	0.000943
1	2030	Building -	Interior Bu	Tool Truck	Off-highwa	Diesel	600	0.59	120	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000927	0.005275	25.13652	6.62E-05	0.000299	0.00029	0.000448
1	2030	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	120	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000927	0.005275	25.13652	6.62E-05	0.000299	0.00029	0.000448
1	2030	Building -	Roofing	High Lift	Rough Ter	Diesel	100	0.59	120	0.130506	0.931858	596.1206	0.001581	0.024524	0.023789	0.012905	0.001019	0.007273	4.652366	1.23E-05	0.000191	0.000186	0.000101
1	2030	Building -	Roofing	Man Lift (Fascia Construction)	Rough Ter	Diesel	75	0.21	120	0.237794	2.569426	595.9823	0.001586	0.023765	0.023052	0.056571	0.000495	0.005353	1.241657	3.3E-06	4.95E-05	4.8E-05	0.000118
1	2030	Building -	Roofing	Material Deliveries	Off-highwa	Diesel	600	0.59	8	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	6.18E-05	0.000352	1.675768	4.41E-06	1.99E-05	1.93E-05	2.98E-05
1	2030	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	12	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	9.27E-05	0.000527	2.513652	6.62E-06	2.99E-05	2.9E-05	4.48E-05
1	2030	Building -	Security &	High Lift	Rough Ter	Diesel	100	0.59	320	0.130506	0.931858	596.1206	0.001581	0.024524	0.023789	0.012905	0.002716	0.019394	12.40631	3.29E-05	0.00051	0.000495	0.000269
1	2030	Building -	Security &	Tool Truck	Off-highwa	Diesel	600	0.59	80	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000618	0.003516	16.75768	4.41E-05	0.000199	0.000193	0.000298
1	2030	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.028647	0.145715	531.0089	0.001404	0.007779	0.007545	0.011403	0.000978	0.004973	18.12213	4.79E-05	0.000265	0.000258	0.000389
1	2030	Building -	Structural	Fork Truck	Other Con	Diesel	100	0.59	120	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	0.001526	0.007765	4.652229	1.24E-05	0.000255	0.000248	0.000149
1	2030	Building -	Structural	Tool Truck	Off-highwa	Diesel	600	0.59	60	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000464	0.002637	12.56826	3.31E-05	0.00015	0.000145	0.000224
1	2030	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highwa	Diesel	600	0.59	16	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000124	0.000703	3.351536	8.83E-06	3.99E-05	3.87E-05	5.97E-05
2	2030	Building -	Concrete F	Backhoe	Tractors/L	Diesel	100	0.21	320	1.038687	1.547273	695.5805	0.001933	0.149671	0.145181	0.144229	0.007694	0.011462	5.152561	1.43E-05	0.001109	0.001075	0.001068
2	2030	Building -	Concrete F	Concrete Ready Mix Trucks	Off-highwa	Diesel	600	0.59	60	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000464	0.002637	12.56826	3.31E-05	0.00015	0.000145	0.000224
2	2030	Building -	Concrete F	Fork Truck	Other Con	Diesel	100	0.59	320	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	0.004068	0.020706	12.40594	3.31E-05	0.000681	0.000661	0.000396
2	2030	Building -	Concrete F	Tool Truck	Off-highwa	Diesel	600	0.59	80	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000618	0.003516	16.75768	4.41E-05	0.000199	0.000193	0.000298
2	2030	Building -	Concrete F	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	16	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000124	0.000703	3.351536	8.83E-06	3.99E-05	3.87E-05	5.97E-05
2	2030	Building -	Constructi	Survey Crew Trucks	Off-highwa	Diesel	600	0.59	10	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	7.73E-05	0.00044	2.09471	5.52E-06	2.49E-05	2.42E-05	3.73E-05
2	2030	Building -	Constructi	Tractor Trailers Temp Fac.	Off-highwa	Diesel	600	0.59	4	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	3.09E-05	0.000176	0.837884	2.21E-06	9.97E-06	9.67E-06	1.49E-05
2	2030	Building -	Exterior W	Fork Truck	Other Con	Diesel	100	0.59	240	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	0.003051	0.01553	9.304457	2.48E-05	0.000511	0.000495	0.000297
2	2030	Building -	Exterior W	Man Lift	Rough Ter	Diesel	75	0.21	240	0.237794	2.569426	595.9823	0.001586	0.023765	0.023052	0.056571	0.000991	0.010706	2.483314	6.61E-06	9.9E-05	9.61E-05	0.000236
2	2030	Building -	Exterior W	Tool Truck	Off-highwa	Diesel	600	0.59	60	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000464	0.002637	12.56826	3.31E-05	0.00015	0.000145	0.000224
2	2030	Building -	Exterior W	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	24	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000185	0.001055	5.027304	1.32E-05	5.98E-05	5.8E-05	8.95E-05
2	2030	Building -	Interior Bu	Fork Truck	Other Con	Diesel	100	0.59	960	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	0.012205	0.062119	37.21783	9.93E-05	0.002043	0.001982	0.001189
2	2030	Building -	Interior Bu	Man Lift	Rough Ter	Diesel	75	0.21	960	0.237794	2.569426	595.9823	0.001586	0.023765	0.023052	0.056571	0.003963	0.042825	9.933257	2.64E-05	0.000396	0.000384	0.000943
2	2030	Building -	Interior Bu	Tool Truck	Off-highwa	Diesel	600	0.59	120	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000927	0.005275	25.13652	6.62E-05	0.000299	0.00029	0.000448
2	2030	Building -	Interior Bu	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	120	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000927	0.005275	25.13652	6.62E-05	0.000299	0.00029	0.000448
2	2030	Building -	Roofing	High Lift	Rough Ter	Diesel	100	0.59	120	0.130506	0.931858	596.1206	0.001581	0.024524	0.023789	0.012905	0.001019	0.007273	4.652366	1.23E-05	0.000191	0.000186	0.000101
2	2030	Building -	Roofing	Man Lift (Fascia Construction)	Rough Ter	Diesel	75	0.21	120	0.237794	2.569426	595.9823	0.001586	0.023765	0.023052	0.056571	0.000495	0.005353	1.241657	3.3E-06	4.95E-05	4.8E-05	0.000118
2	2030	Building -	Roofing	Material Deliveries	Off-highwa	Diesel	600	0.59	8	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	6.18E-05	0.000352	1.675768	4.41E-06	1.99E-05	1.93E-05	2.98E-05
2	2030	Building -	Roofing	Tractor Trailer- Material Delivery	Off-highwa	Diesel	600	0.59	12	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	9.27E-05	0.000527	2.513652	6.62E-06	2.99E-05	2.9E-05	4.48E-05
2	2030	Building -	Security &	High Lift	Rough Ter	Diesel	100	0.59	320	0.130506	0.931858	596.1206	0.001581	0.024524	0.023789	0.012905	0.002716	0.019394	12.40631	3.29E-05	0.00051	0.000495	0.000269
2	2030	Building -	Security &	Tool Truck	Off-highwa	Diesel	600	0.59	80	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000618	0.003516	16.75768	4.41E-05	0.000199	0.000193	0.000298
2	2030	Building -	Structural	40 Ton Crane	Cranes300	Diesel	300	0.43	240	0.028647	0.145715	531.0089	0.001404	0.007779	0.007545	0.011403	0.000978	0.004973	18.12213	4.79E-05	0.000265	0.000258	0.000389
2	2030	Building -	Structural	Fork Truck	Other Con	Diesel	100	0.59	120	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	0.001526	0.007765	4.652229	1.24E-05	0.000255	0.000248	0.000149
2	2030	Building -	Structural	Tool Truck	Off-highwa	Diesel	600	0.59	60	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000464	0.002637	12.56826	3.31E-05	0.00015	0.000145	0.000224
2	2030	Building -	Structural	Tractor Trailer- Steel Deliveries	Off-highwa	Diesel	600	0.59	16	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000124	0.000703	3.351536	8.83E-06	3.99E-05	3.87E-05	5.97E-05
3	2030	Access Ro	Asphalt Pl	Asphalt Paver	Pavers175	Diesel	175	0.59	1.171	0.060462	0.194501	536.8032	0.001418	0.013881	0.013465	0.009825	8.06E-06	2.59E-05	0.071543	1.89E-07	1.85E-06	1.79E-06	1.31E-06
3	2030	Access Ro	Asphalt Pl	Dump Truck	Off-highwa	Diesel	600	0.59	4.217445	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	3.26E-05	0.000185	0.883433	2.33E-06	1.05E-05	1.02E-05	1.57E-05
3	2030	Access Ro	Asphalt Pl	Other General Equipment	Other Con	Diesel	175	0.43	2.342	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	1.94E-05	6.03E-05	0.104279	2.78E-07	4.64E-06	4.5E-06	3.23E-06
3	2030	Access Ro	Asphalt Pl	Pickup Truck	Off-highwa	Diesel	600	0.59	1.171	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	9.05E-06	5.15E-05	0.245291	6.46E-07	2.92E-06	2.83E-06	4.37E-06
3	2030	Access Ro	Asphalt Pl	Roller	Rollers100	Diesel	100	0.59	1.171	0.088501	0.892622	596.1304	0.001575	0.017975	0.017436	0.009766	6.74E-06	6.8E-05	0.0454	1.2E-07	1.37E-06	1.33E-06	7.44E-07
3	2030	Access Ro	Asphalt Pl	Skid Steer Loader	Skid Steer	Diesel	75	0.21	1.171	2.123612	3.461035	694.8576	0.002069	0.272086	0.263923	0.388167	4.32E-05	7.04E-05	0.014127	4.21E-08	5.53E-06	5.37E-06	7.89E-06
3	2030	Access Ro	Asphalt Pl	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	1.49888	1.488299	3.762404	595.1504	0.002188	0.170313	0.165204	0.35162	3.63E-05	9.17E-05	0.014504	5.33E-08	4.15E-06	4.03E-06	8.57E-06
3	2030	Access Ro	Clearing a	Chain Saw	Other Con	Diesel	11	0.7	3.6	2.459739	4.183456	593.7551	0.002183	0.238707	0.231546	0.837781	7.52E-05	0.000128	0.018143	6.67E-08	7.29E-06	7.08E-06	2.56E-05

3	2030 Access Ro	Clearing a	Chipper/Stump Grinder	Other Con	Diesel	100	0.43	3.6	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	3.34E-05	0.00017	0.101718	2.72E-07	5.58E-06	5.42E-06	3.25E-06
3	2030 Access Ro	Clearing a	Pickup Truck	Off-highw	Diesel	600	0.59	4.8	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	3.71E-05	0.000211	1.005461	2.65E-06	1.2E-05	1.16E-05	1.79E-05
3	2030 Access Ro	Concrete F	Air Compressor	Other Con	Diesel	100	0.43	3.1232	0.195476	0.994937	596.1029	0.001591	0.032726	0.031744	0.019038	2.89E-05	0.000147	0.088246	2.36E-07	4.84E-06	4.7E-06	2.82E-06
3	2030 Access Ro	Concrete F	Concrete Saws	Other Con	Diesel	40	0.59	3.1232	0.277788	2.528137	595.881	0.001569	0.020157	0.019552	0.092377	2.26E-05	0.000205	0.048415	1.27E-07	1.64E-06	1.59E-06	7.51E-06
3	2030 Access Ro	Concrete F	Concrete Truck	Off-highw	Diesel	600	0.59	13.01333	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000101	0.000572	2.725916	7.18E-06	3.24E-05	3.15E-05	4.86E-05
3	2030 Access Ro	Concrete F	Other General Equipment	Other Con	Diesel	175	0.43	6.2464	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	5.17E-05	0.000161	0.278126	7.42E-07	1.24E-05	1.2E-05	8.63E-06
3	2030 Access Ro	Concrete F	Pickup Truck	Off-highw	Diesel	600	0.59	9.3696	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	7.24E-05	0.000412	1.96266	5.17E-06	2.34E-05	2.27E-05	3.5E-05
3	2030 Access Ro	Concrete F	Rubber Tired Loader	Tractors/L	Diesel	175	0.59	3.1232	0.422178	0.861946	626.2384	0.001739	0.100027	0.097026	0.105585	0.00015	0.000306	0.222606	6.18E-07	3.56E-05	3.45E-05	3.75E-05
3	2030 Access Ro	Concrete F	Slip Form Paver	Pavers175	Diesel	175	0.59	3.1232	0.060462	0.194501	536.8032	0.001418	0.013881	0.013465	0.009825	2.15E-05	6.91E-05	0.190815	5.04E-07	4.93E-06	4.79E-06	3.49E-06
3	2030 Access Ro	Concrete F	Surfacing Equipment (Grooving)	Other Con	Diesel	25	0.59	3.1232	1.488299	3.762404	595.1504	0.002188	0.170313	0.165204	0.35162	7.56E-05	0.000191	0.030222	1.11E-07	8.65E-06	8.39E-06	1.79E-05
3	2030 Access Ro	Curbing	Concrete Truck	Off-highw	Diesel	600	0.59	16.88	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.00013	0.000742	3.535871	9.31E-06	4.21E-05	4.08E-05	6.3E-05
3	2030 Access Ro	Curbing	Curb/Gutter Paver	Pavers175	Diesel	175	0.59	16.88	0.060462	0.194501	536.8032	0.001418	0.013881	0.013465	0.009825	0.000116	0.000374	1.031298	2.72E-06	2.67E-05	2.59E-05	1.89E-05
3	2030 Access Ro	Curbing	Other General Equipment	Other Con	Diesel	175	0.43	16.88	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	0.00014	0.000435	0.751595	2.01E-06	3.35E-05	3.25E-05	2.33E-05
3	2030 Access Ro	Curbing	Pickup Truck	Off-highw	Diesel	600	0.59	16.88	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.00013	0.000742	3.535871	9.31E-06	4.21E-05	4.08E-05	6.3E-05
3	2030 Access Ro	Drainage - Dozer		Crawler Tr	Diesel	175	0.59	13.824	0.055594	0.18228	536.8045	0.001416	0.012626	0.012247	0.009124	8.75E-05	0.000287	0.844591	2.23E-06	1.99E-05	1.93E-05	1.44E-05
3	2030 Access Ro	Drainage - Dump Truck		Off-highw	Diesel	600	0.59	13.824	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000107	0.000608	2.895727	7.63E-06	3.45E-05	3.34E-05	5.16E-05
3	2030 Access Ro	Drainage - Excavator		Excavators	Diesel	175	0.59	13.824	0.049682	0.169305	536.8082	0.001414	0.011045	0.010714	0.008283	7.82E-05	0.000266	0.844597	2.22E-06	1.74E-05	1.69E-05	1.3E-05
3	2030 Access Ro	Drainage - Loader		Tractors/L	Diesel	175	0.59	13.824	0.422178	0.861946	626.2384	0.001739	0.100027	0.097026	0.105585	0.000664	0.001356	0.985304	2.74E-06	0.000157	0.000153	0.000166
3	2030 Access Ro	Drainage - Other General Equipment		Other Con	Diesel	175	0.43	13.824	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	0.000114	0.000356	0.615524	1.64E-06	2.74E-05	2.66E-05	1.91E-05
3	2030 Access Ro	Drainage - Pickup Truck		Off-highw	Diesel	600	0.59	13.824	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000107	0.000608	2.895727	7.63E-06	3.45E-05	3.34E-05	5.16E-05
3	2030 Access Ro	Drainage - Roller		Rollers10C	Diesel	100	0.59	13.824	0.088501	0.892622	596.1304	0.001575	0.017975	0.017436	0.009766	7.96E-05	0.000803	0.535961	1.42E-06	1.62E-05	1.57E-05	8.78E-06
3	2030 Access Ro	Drainage - Dump Truck		Off-highw	Diesel	600	0.59	7.68	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	5.93E-05	0.000338	1.608737	4.24E-06	1.91E-05	1.86E-05	2.87E-05
3	2030 Access Ro	Drainage - Loader		Tractors/L	Diesel	175	0.59	7.68	0.422178	0.861946	626.2384	0.001739	0.100027	0.097026	0.105585	0.000369	0.000753	0.547391	1.52E-06	8.74E-05	8.48E-05	9.23E-05
3	2030 Access Ro	Drainage - Other General Equipment		Other Con	Diesel	175	0.43	7.68	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	6.36E-05	0.000198	0.341958	9.13E-07	1.52E-05	1.48E-05	1.06E-05
3	2030 Access Ro	Drainage - Pickup Truck		Off-highw	Diesel	600	0.59	7.68	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	5.93E-05	0.000338	1.608737	4.24E-06	1.91E-05	1.86E-05	2.87E-05
3	2030 Access Ro	Drainage - Tractors/Loader/Backhoe		Tractors/L	Diesel	100	0.21	7.68	1.038687	1.547273	695.5805	0.001933	0.149671	0.145181	0.144229	0.000185	0.000275	0.123661	3.44E-07	2.66E-05	2.58E-05	2.56E-05
3	2030 Access Ro	Dust Conti	Water Truck	Off-highw	Diesel	600	0.59	1440	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.011128	0.063295	301.6383	0.000794	0.003589	0.003481	0.005373
3	2030 Access Ro	Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	5.205333	0.055594	0.18228	536.8045	0.001416	0.012626	0.012247	0.009124	3.29E-05	0.000108	0.318025	8.39E-07	7.48E-06	7.26E-06	5.41E-06
3	2030 Access Ro	Excavatior	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	5.205333	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	4.02E-05	0.000229	1.090366	2.87E-06	1.3E-05	1.26E-05	1.94E-05
3	2030 Access Ro	Excavatior	Pickup Truck	Off-highw	Diesel	600	0.59	5.205333	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	4.02E-05	0.000229	1.090366	2.87E-06	1.3E-05	1.26E-05	1.94E-05
3	2030 Access Ro	Excavatior	Roller	Rollers10C	Diesel	100	0.59	2.402462	0.088501	0.892622	596.1304	0.001575	0.017975	0.017436	0.009766	1.38E-05	0.000139	0.093144	2.46E-07	2.81E-06	2.72E-06	1.53E-06
3	2030 Access Ro	Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	3.904	0.055594	0.18228	536.8045	0.001416	0.012626	0.012247	0.009124	2.47E-05	8.1E-05	0.238519	6.29E-07	5.61E-06	5.44E-06	4.05E-06
3	2030 Access Ro	Excavatior	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	10.41067	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	8.05E-05	0.000458	2.180733	5.74E-06	2.59E-05	2.52E-05	3.88E-05
3	2030 Access Ro	Excavatior	Excavator	Excavators	Diesel	175	0.59	3.1232	0.049682	0.169305	536.8082	0.001414	0.011045	0.010714	0.008283	1.77E-05	6.02E-05	0.190816	5.03E-07	3.93E-06	3.81E-06	2.94E-06
3	2030 Access Ro	Excavatior	Pickup Truck	Off-highw	Diesel	600	0.59	3.1232	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	2.41E-05	0.000137	0.65422	1.72E-06	7.78E-06	7.55E-06	1.17E-05
3	2030 Access Ro	Excavatior	Roller	Rollers10C	Diesel	100	0.59	3.1232	0.088501	0.892622	596.1304	0.001575	0.017975	0.017436	0.009766	1.8E-05	0.000181	0.121088	3.2E-07	3.65E-06	3.54E-06	1.98E-06
3	2030 Access Ro	Excavatior	Scraper	Scrapers6(	Diesel	600	0.59	3.904	0.07046	0.218883	536.7841	0.001432	0.014918	0.014471	0.015608	0.000107	0.000333	0.817748	2.18E-06	2.27E-05	2.2E-05	2.38E-05
3	2030 Access Ro	Excavatior	Dozer	Crawler Tr	Diesel	175	0.59	1.46949	0.055594	0.18228	536.8045	0.001416	0.012626	0.012247	0.009124	9.3E-06	3.05E-05	0.08978	2.37E-07	2.11E-06	2.05E-06	1.53E-06
3	2030 Access Ro	Fencing	Concrete Truck	Off-highw	Diesel	600	0.59	4.688889	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	3.62E-05	0.000206	0.982186	2.59E-06	1.17E-05	1.13E-05	1.75E-05
3	2030 Access Ro	Fencing	Dump Truck	Off-highw	Diesel	600	0.59	18.75556	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000145	0.000824	3.928745	1.03E-05	4.67E-05	4.53E-05	7E-05
3	2030 Access Ro	Fencing	Other General Equipment	Other Con	Diesel	175	0.43	18.75556	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	0.000155	0.000483	0.835106	2.23E-06	3.72E-05	3.61E-05	2.59E-05
3	2030 Access Ro	Fencing	Pickup Truck	Off-highw	Diesel	600	0.59	18.75556	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000145	0.000824	3.928745	1.03E-05	4.67E-05	4.53E-05	7E-05
3	2030 Access Ro	Fencing	Skid Steer Loader	Skid Steer	Diesel	75	0.21	18.75556	2.123612	3.461035	694.8576	0.002069	0.272086	0.263923	0.388167	0.000692	0.001127	0.226263	6.74E-07	8.86E-05	8.59E-05	0.000126
3	2030 Access Ro	Fencing	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	18.75556	1.038687	1.547273	695.5805	0.001933	0.149671	0.145181	0.144229	0.000451	0.000672	0.301997	8.39E-07	6.5E-05	6.3E-05	6.26E-05
3	2030 Access Ro	Grading	Dozer	Crawler Tr	Diesel	175	0.59	1.4386	0.055594	0.18228	536.8045	0.001416	0.012626	0.012247	0.009124	9.1E-06	2.98E-05	0.087893	2.32E-07	2.07E-06	2.01E-06	1.49E-06
3	2030 Access Ro	Grading	Grader	Graders30	Diesel	300	0.59	1.4386	0.022226	0.117681	536.8012	0.001415	0.006885	0.006678	0.009974	6.24E-06	3.3E-05	0.150672	3.97E-07	1.93E-06	1.87E-06	2.8E-06
3	2030 Access Ro	Grading	Roller	Rollers10C	Diesel	100	0.59	1.4386	0.088501	0.892622	596.1304	0.001575	0.017975	0.017436	0.009766	8.28E-06	8.35E-05	0.055775	1.47E-07	1.68E-06	1.63E-06	9.14E-07
3	2030 Access Ro	Hydroseec	Hydroseeder	Other Con	Diesel	600	0.59	1.296	0.255367	0.623013	536.7198	0.00149	0.042749	0.041467	0.037991	0.000129	0.000315	0.271433	7.54E-07	2.16E-05	2.1E-05	1.92E-05
3	2030 Access Ro	Hydroseec	Off-Road Truck	Off-highw	Diesel	600	0.59	1.296	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	1E-05	5.7E-05	0.271474	7.15E-07	3.23E-06	3.13E-06	4.84E-06
3	2030 Access Ro	Markings	Flatbed Truck	Off-highw	Diesel	600	0.59	19.29143	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000149	0.000848	4.040995	1.06E-05	4.81E-05	4.66E-05	7.2E-05
3	2030 Access Ro	Markings	Other General Equipment	Other Con	Diesel	175	0.43	19.29143	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	0.00016	0.000497	0.858966	2.29E-06	3.83E-05	3.71E-05	2.66E-05
3	2030 Access Ro	Markings	Pickup Truck	Off-highw	Diesel	600	0.59	19.29143	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000149	0.000848	4.040995	1.06E-05	4.81E-05	4.66E-05	7.2E-05
3	2030 Access Ro	Sidewalks	Concrete Truck	Off-highw	Diesel	600	0.59	33.76	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000261	0.001484	7.071742	1.86E-05	8.41E-05	8.16E-05	0.000126
3	2030 Access Ro	Sidewalks	Dump Truck	Off-highw	Diesel	600	0.59	33.76	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000261	0.001484	7.071742	1.86E-05	8.41E-05	8.16E-05	0.000126
3	2030 Access Ro	Sidewalks	Pickup Truck	Off-highw	Diesel	600	0.59	33.76	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000261	0.001484	7.071742	1.86E-05	8.41E-05	8.16E-05	0.000126
3	2030 Access Ro	Sidewalks	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	33.76	1.038687	1.547273	695.5805	0.001933	0.149671	0.145181	0.144229	0.000812	0.001209	0.543595	1.51E-06	0.000117	0.000113	0.000113
3	2030 Access Ro	Sidewalks	Vibratory Compactor	Plate Com	Diesel	6	0.43	33.76	2.465789	4.183158	587.9779	0.002162	0.240348	0.233137	0.835284	0.000237	0.000402	0.056453	2.08E-07	2.31E-05	2.24E-05	8.02E-05
3	2030 Access Ro	Soil Erosio	Other General Equipment	Other Con	Diesel	175	0.43	1.2	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	9.93E-06	3.09E-05	0.053431	1.43E-07	2.38E-06	2.31E-06	1.66E-06
3	2030 Access Ro	Soil Erosio	Pickup Truck	Off-highw	Diesel	600	0.59	2.4	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	1.85E-05	0.000105	0.50273	1.32E-06	5.98E-06	5.8E-06	8.95E-06
3	2030 Access Ro	Soil Erosio	Pumps	Other Con	Diesel	11	0.43	1.2	2.459739	4.183456	593.7551	0.002183	0.238707	0.231546	0.837781	1.54E-05	2.62E-05	0.003715	1.37E-08	1.49E-06	1.45E-06	5.24E-06
3	2030 Access Ro	Soil Erosio	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	1.2	1.038687	1.547273	695.5805	0.001933	0.149671	0.145181	0.144229	2.89E-05	4.3E-05	0.019322	5.37E-08	4.16E-06	4.03E-06	4.01E-06
3	2030 Access Ro	Street Ligh	Dump Truck	Off-highw	Diesel	600	0.59	11.2	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	8.66E-05	0.000492	2.346075	6.18E-06	2.79E-05	2.71E-05	4.18E-05
3	2030 Access Ro	Street Ligh	Loader	Tractors/L	Diesel	175	0.59	11.2	0.422178	0.861946	626.2384	0.001739	0.100027	0.097026	0.105585	0.000538	0.001099	0.798278	2.22E-06	0.000128	0.000124	0.000135
3	2030 Access Ro	Street Ligh	Other General Equipment	Other Con	Diesel	175	0.43	11.2	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	9.27E-05	0.000288	0.498689	1.33E-06	2.22E-05	2.15E-05	1.55E-05
3	2030 Access Ro	Street Ligh	Pickup Truck	Off-highw	Diesel	600	0.59	11.2	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	8.66E-05	0.000492	2.346075	6.18E-06	2.79E-05	2.71E-05	4.18E-05
3	2030 Access Ro	Street Ligh	Skid Steer Loader	Skid Steer	Diesel	75	0.21	11.2	2.123612	3.461035	694.8576	0.002069	0.272086	0.263923	0.388167	0.000413	0.000673	0.135114	4.02E-07	5.29E-05	5.13E-05	7.55E-05
3	2030 Access Ro	Street Ligh	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	11.2	1.038687	1.547273	695.5805	0.001933	0.149671	0.145181	0.144229	0.000269	0.000401	0.18034	5.01E-07	3.88E-05	3.76E-05	3.74E-05
3	2030 Access Ro	Subbase P	Dozer	Crawler Tr	Diesel	175	0.59	1.972211	0.055594	0.18228	536.8045	0.001416	0.012626	0.012247	0.009124	1.25E-05	4.09E-05	0.120494	3.18E-07	2.83E-06	2.75E-06	2.05E-06
3	2030 Access Ro	Subbase P	Dump Truck (12 cy)	Off-highw	Diesel	600	0.59	13.88	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0.000107	0.00061	2.907458	7.66E-06	3.46E-05	3.36E-05	5.18E-05
3	2030 Access Ro	Subbase P	Pickup Truck	Off-highw	Diesel	600	0.59	1.972211	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	1.52E-05	8.67E-05	0.413121	1.09E-06	4.92E-06	4.77E-06	7.36E-06
3	2030 Access Ro	Subbase P	Roller	Rollers10C	Diesel	100	0.59	1.921846	0.088501	0.892622	596.1304	0.001575	0.017975	0.017436	0.009766	1.11E-05	0.000112	0.074511	1.97E-07	2.25E-06	2.18E-06	1.22E-06
3	2030 Access Ro	Topsoil Pla	Dozer	Crawler Tr	Diesel	175	0.59	3.197333	0.055594	0.18228	536.8045	0.001416	0.012626	0.012247	0.009124	2.02E-05	6.63E-05	0.195344	5.15E-07	4.59E-06	4.46E-06	3.32E-06
3	2030 Access Ro	Topsoil Pla	Dump Truck	Off-highw	Diesel	600	0.59	3.197333	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	2.47E-05	0.000141	0.669749	1.76E-06	7.97E-06	7.73E-06	1.19E-05
3	2030 Access Ro	Topsoil Pla	Pickup Truck	Off-highw	Diesel	600	0.59	3.197333	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	2.47E-05	0.000141	0.669749	1.76E-06	7.97E-06	7.73E-06	1.19E-05
3	2030 Access Ro	Tree Plant	Flatbed Truck	Off-highw	Diesel	600	0.59	0	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0	0	0	0	0	0	0
3	2030 Access Ro	Tree Plant	Other General Equipment	Other Con	Diesel	175	0.43	0	0.099762	0.310391	536.7827	0.001433	0.023905	0.023188	0.016649	0	0	0	0	0	0	0
3	2030 Access Ro	Tree Plant	Pickup Truck	Off-highw	Diesel	600	0.59	0	0.019804	0.112642	536.802	0.001414	0.006387	0.006196	0.009561	0	0	0	0	0	0	0
3	2030 Access Ro	Tree Plant	Tractors/Loader/Backhoe	Tractors/L	Diesel	100	0.21	0	1.038687	1.547273	695.5805	0.001933	0.149671	0.145181	0.144229	0	0	0	0	0	0	0
															Totals	**0.108467**	**0.569752**	**908.8425**	**0.002402**	**0.021287**	**0.020649**	**0.023338**

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

MOVES ONROAD Emissions Factors (g/mile)

7	10	13	11	12	14	5	8

Scenario I	Year	Project	Equipmen	Equipment Category	On-road A	Lookup	Fuel	Roadway T	Round Trip	Distance f	Number o	Number o	Number o	Project Le	Project Wi	Project Ar	Building H	Open Spac	Number o	Activity Ra	VMT	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4
1	2030	Building -	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--	2313	1.175267	1.508038	0.00313	0.013855	0.012747	0.063055	937.2914	0.013757
1	2030	Building -	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--	1233	1.175267	1.508038	0.00313	0.013855	0.012747	0.063055	937.2914	0.013757
1	2030	Building -	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	257.4	257.4	129	--	--	--	--	--	--	--	996138	2.101065	0.025519	0.001879	0.001741	0.001541	0.045149	282.8728	0.00522
1	2030	Building -	Tractor Tr	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	0.0016	160	2.070068	3.444103	0.005031	0.043863	0.040354	0.135046	1507.344	0.017672
2	2030	Building -	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--	2313	1.175267	1.508038	0.00313	0.013855	0.012747	0.063055	937.2914	0.013757
2	2030	Building -	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	--	1233	1.175267	1.508038	0.00313	0.013855	0.012747	0.063055	937.2914	0.013757
2	2030	Building -	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	17.6	17.6	129	--	--	--	--	--	--	--	68112	2.101065	0.025519	0.001879	0.001741	0.001541	0.045149	282.8728	0.00522
2	2030	Building -	Tractor Tr	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	--	--	10000	--	--	--	0.0016	160	2.070068	3.444103	0.005031	0.043863	0.040354	0.135046	1507.344	0.017672
3	2030	Access Ro	Asphalt 18	Combination Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	422	20	--	--	--	--	--	122	2.070068	3.444103	0.005031	0.043863	0.040354	0.135046	1507.344	0.017672
3	2030	Access Ro	Cement M	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	422	20	--	--	--	--	--	1952	1.175267	1.508038	0.00313	0.013855	0.012747	0.063055	937.2914	0.013757
3	2030	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	422	20	--	--	--	--	--	173	1.175267	1.508038	0.00313	0.013855	0.012747	0.063055	937.2914	0.013757
3	2030	Access Ro	Dump Tru	Single Unit Short-haul Truck	Material D	DieselUrb	Diesel	Urban Unr	40	5	1	--	129	422	20	--	--	--	--	--	1041	1.175267	1.508038	0.00313	0.013855	0.012747	0.063055	937.2914	0.013757
3	2030	Access Ro	Passenger	Passenger Car	Employee	GasolineU	Gasoline	Urban Unr	30	--	510.4	510.4	129	--	--	--	--	--	--	--	1975248	2.101065	0.025519	0.001879	0.001741	0.001541	0.045149	282.8728	0.00522

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario I	Year	Project	Fugitive S	Number of Months	CO	NOx	SO2	PM10	VOC
1	2030	Building -	Concrete I	6	0	0	0	0.00855	0
1	2030	Building -	Material N	6	0	0	0	0.006	0
1	2030	Building -	Material N	6	0	0	0	0.01765	0
2	2030	Building -	Concrete I	6	0	0	0	0.00855	0
2	2030	Building -	Material N	6	0	0	0	0.006	0
2	2030	Building -	Material N	6	0	0	0	0.01765	0
3	2030	Access Ro	Asphalt Dr	6	0	0	0	0	0.05
3	2030	Access Ro	Asphalt St	6	0.0204	0.001275	0.000235	0.001399	0.000633
3	2030	Access Ro	Concrete I	6	0	0	0	0.0072	0
3	2030	Access Ro	Material N	6	0	0	0	0.01195	0
3	2030	Access Ro	Material N	6	0	0	0	0.03625	0
3	2030	Access Ro	Soil Handl	6	0	0	0	0.002389	0
3	2030	Access Ro	Unstabiliz	6	0	0	0	1.70E-09	0
				Totals	0.0204	0.001275	0.000235	0.123588	0.050633

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2030 Totals

Year	Emission S	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O	CO2e
2030	NonRoad	0.108467	0.569752	0.002402459	0.021287	0.020649	0.023338	908.8425	--	--	
2030	OnRoad	7.053896	0.104231	0.006333893	0.006013	0.005325	0.152051	959.0956	0.017652	0.005329	
2030	Fugitive	0.0204	0.001275	0.0002345	0.123588	--	0.050633	--	--	--	
2030	TOTAL	7.182763	0.675257	0.008970851	0.150888	0.025974	0.226022	1867.938	0.017652	0.005329	1869.845

ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES3.0.2, revised September 2021

Non-Road Equipment: MOVES3.0.2 September 2021

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:
- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO_2, CH_4, and N_2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)

MOVES ONROAD Emissions (tpy)

9	7	10	13	11	12	14	5	8	9

N2O	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
0.003286	0.002997	0.003845	7.98E-06	3.53E-05	3.25E-05	0.000161	2.389774	3.51E-05	8.38E-06
0.003286	0.001597	0.00205	4.25E-06	1.88E-05	1.73E-05	8.57E-05	1.273926	1.87E-05	4.47E-06
0.001579	2.307095	0.028021	0.002063	0.001912	0.001692	0.049577	310.6113	0.005731	0.001734
0.002802	0.000365	0.000607	8.87E-07	7.74E-06	7.12E-06	2.38E-05	0.265851	3.12E-06	4.94E-07
0.003286	0.002997	0.003845	7.98E-06	3.53E-05	3.25E-05	0.000161	2.389774	3.51E-05	8.38E-06
0.003286	0.001597	0.00205	4.25E-06	1.88E-05	1.73E-05	8.57E-05	1.273926	1.87E-05	4.47E-06
0.001579	0.15775	0.001916	0.000141	0.000131	0.000116	0.00339	21.23838	0.000392	0.000119
0.002802	0.000365	0.000607	8.87E-07	7.74E-06	7.12E-06	2.38E-05	0.265851	3.12E-06	4.94E-07
0.002802	0.000278	0.000463	6.77E-07	5.9E-06	5.43E-06	1.82E-05	0.202712	2.38E-06	3.77E-07
0.003286	0.002529	0.003245	6.73E-06	2.98E-05	2.74E-05	0.000136	2.016791	2.96E-05	7.07E-06
0.003286	0.000224	0.000288	5.97E-07	2.64E-06	2.43E-06	1.2E-05	0.178742	2.62E-06	6.27E-07
0.003286	0.001349	0.00173	3.59E-06	1.59E-05	1.46E-05	7.24E-05	1.075553	1.58E-05	3.77E-06
0.001579	4.574753	0.055563	0.004092	0.003792	0.003354	0.098306	615.913	0.011365	0.003438
Totals	**7.053896**	**0.104231**	**0.006334**	**0.006013**	**0.005325**	**0.152051**	**959.0956**	**0.017652**	**0.005329**

Operation	Mode	Fuel (ST)	Distance (r	Duration	CO (ST)	THC (ST)	TOG (ST)	VOC (ST)	NMHC (ST	NOx (ST)	nvPM Mas	nvPM Nun	PMSO (ST)	PMFO (ST)	CO2 (ST)	H2O (ST)	SOx (ST)	PM 2.5 (ST	PM 10 (ST)
AUS_2019	Startup	0	0	00:00.0	0.00E+00	2.45E+01	2.83E+01	2.82E+01	2.83E+01	0.00E+00	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AUS_2019	Taxi Out	14042.73	0	20311:44::	3.79E+02	5.75E+01	6.64E+01	6.59E+01	6.63E+01	5.57E+01	4.15E+05	2.32E+22	6.07E-01	3.29E-01	4.43E+04	1.74E+04	1.64E+01	1.39E+00	1.39E+00
AUS_2019	Climb Grou	20949.5	68465.81	21166:37:(	3.87E+02	8.28E+01	9.56E+01	9.50E+01	9.55E+01	2.20E+02	1.02E+06	2.77E+22	9.05E-01	4.10E-01	6.61E+04	2.59E+04	2.45E+01	2.44E+00	2.44E+00
AUS_2019	Climb Belc	24853.42	183659.7	21904:24:!	4.01E+02	8.33E+01	9.62E+01	9.56E+01	9.61E+01	3.12E+02	1.38E+06	3.03E+22	1.07E+00	4.65E-01	7.84E+04	3.07E+04	2.91E+01	3.06E+00	3.06E+00
AUS_2019	Climb Belc	34222.39	520382.4	23739:02:4	4.32E+02	8.47E+01	9.77E+01	9.70E+01	9.76E+01	5.30E+02	2.27E+06	3.71E+22	1.48E+00	5.74E-01	1.08E+05	4.23E+04	4.01E+01	4.55E+00	4.55E+00
AUS_2019	Climb Belc	58847.18	1987118	29494:10:(	5.40E+02	8.86E+01	1.02E+02	1.01E+02	1.02E+02	1.09E+03	4.42E+06	5.32E+22	2.37E+00	1.30E+00	1.86E+05	7.28E+04	6.89E+01	8.54E+00	8.54E+00
AUS_2019	Above 100	72.51349	12961.1	19:02.8	1.81E+00	1.07E-01	1.24E-01	1.23E-01	1.24E-01	5.41E-01	1.98E+03	8.73E+16	2.61E-03	2.18E-03	2.29E+02	8.97E+01	8.49E-02	6.97E-03	6.97E-03
AUS_2019	Descend B	23279.27	2576355	11750:06::	4.06E+02	4.13E+01	4.75E+01	4.70E+01	4.73E+01	1.67E+02	1.01E+06	4.72E+22	9.82E-01	5.14E-01	7.34E+04	2.88E+04	2.73E+01	2.60E+00	2.60E+00
AUS_2019	Descend B	20148.04	1440464	58:59.5	3.07E+02	3.46E+01	3.98E+01	3.94E+01	3.97E+01	1.51E+02	9.20E+05	4.34E+22	8.69E-01	4.20E-01	6.36E+04	2.49E+04	2.36E+01	2.30E+00	2.30E+00
AUS_2019	Descend B	10317.63	295139.5	56:01.5	2.07E+02	2.74E+01	3.15E+01	3.13E+01	3.14E+01	6.65E+01	3.75E+05	1.89E+22	4.45E-01	2.39E-01	3.26E+04	1.28E+04	1.21E+01	1.10E+00	1.10E+00
AUS_2019	Descend G	7692.85	51157.19	44:40.1	1.73E+02	2.59E+01	2.99E+01	2.97E+01	2.99E+01	4.10E+01	2.65E+05	1.39E+22	3.32E-01	1.65E-01	2.43E+04	9.52E+03	9.01E+00	7.89E-01	7.89E-01
AUS_2019	Taxi In	6225.238	0	19:18.0	1.68E+02	2.55E+01	2.94E+01	2.92E+01	2.94E+01	2.47E+01	1.84E+05	1.03E+22	2.69E-01	1.46E-01	1.96E+04	7.70E+03	7.29E+00	6.17E-01	6.17E-01
AUS_2019	Full Flight	82198.96	4576434	41284:35:4	9.48E+02	1.30E+02	1.50E+02	1.48E+02	1.49E+02	1.26E+03	5.43E+06	1.00E+23	3.35E+00	1.81E+00	2.59E+05	1.02E+05	9.63E+01	1.12E+01	1.12E+01
AUS_2019	GSE LTO	0	0	227439:44	2.03E+02	0.00E+00	8.07E+00	7.41E+00	7.09E+00	2.27E+01	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-01	1.06E+00	1.13E+00
AUS_2019	APU	0	0	24026:10:(	2.35E+01	1.30E+00	1.51E+00	1.50E+00	1.51E+00	2.90E+01	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E+00	3.05E+00	3.05E+00
		54370.43	1960847		965.071	145.0449	175.3661	173.5071	174.131	732.288			2.34672	0.99374	171537	67256	67.64756	10.969	11.0348

CO	VOC	NOx	PM2.5	PM10	CO2
965.071	173.5071	732.288	10.969	11.0348	171537

Operation Mode	Fuel (ST)	Distance (	Duration	CO (ST)	THC (ST)	TOG (ST)	VOC (ST)	NMHC (ST	NOx (ST)	nvPM Mas	nvPM Nun	PMSO (ST)	PMFO (ST)	CO2 (ST)	H2O (ST)	SOx (ST)	PM 2.5 (ST	PM 10 (ST)
AUS_2027 Startup	0	0	00:00.0	0.00E+00	3.04E+01	3.51E+01	3.50E+01	3.51E+01	0.00E+00	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AUS_2027 Taxi Out	17353.97	0	20038:45:	4.50E+02	6.14E+01	7.08E+01	7.03E+01	7.07E+01	6.95E+01	4.99E+05	2.82E+22	7.50E-01	3.51E-01	5.48E+04	2.15E+04	2.03E+01	1.65E+00	1.65E+00
AUS_2027 Climb Ground	26069.82	83179.86	20879:00:	4.59E+02	9.27E+01	1.07E+02	1.06E+02	1.07E+02	2.82E+02	1.25E+06	3.39E+22	1.13E+00	4.44E-01	8.23E+04	3.22E+04	3.05E+01	2.95E+00	2.95E+00
AUS_2027 Climb Below 1000 ft AFE	30893.35	209787	21608:59:	4.73E+02	9.33E+01	1.08E+02	1.07E+02	1.08E+02	3.97E+02	1.68E+06	3.71E+22	1.33E+00	5.06E-01	9.75E+04	3.82E+04	3.62E+01	3.69E+00	3.69E+00
AUS_2027 Climb Below Mixing Height	42590.77	602038.4	23422:51:	5.05E+02	9.48E+01	1.09E+02	1.09E+02	1.09E+02	6.74E+02	2.76E+06	4.54E+22	1.84E+00	6.33E-01	1.34E+05	5.27E+04	4.99E+01	5.51E+00	5.51E+00
AUS_2027 Climb Below 10000 ft AFE	73342.17	2310966	29118:36:	6.20E+02	9.93E+01	1.14E+02	1.14E+02	1.14E+02	1.38E+03	5.39E+06	6.53E+22	2.95E+00	1.53E+00	2.31E+05	9.07E+04	8.59E+01	1.04E+01	1.04E+01
AUS_2027 Above 10000 ft AFE	46.97204	8406.77	19:02.8	1.16E+00	6.88E-02	7.95E-02	7.91E-02	7.95E-02	3.54E-01	1.29E+03	8.80E+16	1.69E-03	1.41E-03	1.48E+02	5.81E+01	5.50E-02	4.52E-03	4.52E-03
AUS_2027 Descend Below 10000 ft AFE	28785.44	3047243	11632:52:	4.64E+02	4.46E+01	5.13E+01	5.08E+01	5.11E+01	2.08E+02	1.22E+06	5.75E+22	1.22E+00	5.56E-01	9.08E+04	3.56E+04	3.37E+01	3.12E+00	3.12E+00
AUS_2027 Descend Below Mixing Height	25005.23	1713496	56:54.9	3.54E+02	3.72E+01	4.29E+01	4.25E+01	4.27E+01	1.88E+02	1.12E+06	5.30E+22	1.08E+00	4.43E-01	7.89E+04	3.09E+04	2.93E+01	2.76E+00	2.76E+00
AUS_2027 Descend Below 1000 ft AFE	12680.54	329934.3	49:44.4	2.40E+02	2.91E+01	3.35E+01	3.32E+01	3.34E+01	8.18E+01	4.52E+05	2.28E+22	5.47E-01	2.50E-01	4.00E+04	1.57E+04	1.49E+01	1.29E+00	1.29E+00
AUS_2027 Descend Ground	9528.544	62894.28	52:02.0	2.05E+02	2.76E+01	3.19E+01	3.17E+01	3.19E+01	5.12E+01	3.21E+05	1.69E+22	4.12E-01	1.76E-01	3.01E+04	1.18E+04	1.12E+01	9.41E-01	9.41E-01
AUS_2027 Taxi In	7693.271	0	02:42.0	1.99E+02	2.72E+01	3.14E+01	3.12E+01	3.13E+01	3.08E+01	2.21E+05	1.25E+22	3.32E-01	1.55E-01	2.43E+04	9.52E+03	9.01E+00	7.31E-01	7.31E-01
AUS_2027 Full Flight	102174.6	5366616	40791:47:	1.09E+03	1.44E+02	1.66E+02	1.64E+02	1.65E+02	1.59E+03	6.62E+06	1.23E+23	4.17E+00	2.09E+00	3.22E+05	1.26E+05	1.20E+02	1.36E+01	1.36E+01
AUS_2027 GSE LTO	0	0	224096:10	1.70E+02	0.00E+00	7.18E+00	6.63E+00	6.33E+00	1.58E+01	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-01	9.69E-01	1.04E+00
AUS_2027 APU	0	0	23712:00:	2.73E+01	1.59E+00	1.84E+00	1.83E+00	1.84E+00	3.70E+01	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E+00	3.76E+00	3.76E+00
Total				1.06E+03	1.34E+02	1.61E+02	159.582	1.60E+02	9.15E+02	#VALUE!	#VALUE!	2.92E+00	1.08E+00	2.13E+05	8.36E+04	8.42E+01	1.30E+01	1.31E+01

Operation Mode	Fuel (ST)	Distance (r	Duration	CO (ST)	THC (ST)	TOG (ST)	VOC (ST)	NMHC (ST	NOx (ST)	nvPM Mas	nvPM Nun	PMSO (ST)	PMFO (ST)	CO2 (ST)	H2O (ST)	SOx (ST)	PM 2.5 (ST	PM 10 (ST)
2032_NA_ Startup	0	0	00:00.0	0.00E+00	3.17E+01	3.66E+01	3.64E+01	3.66E+01	0.00E+00	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2032_NA_ Taxi Out	18051.12	0	19574:39:	4.72E+02	6.42E+01	7.41E+01	7.36E+01	7.40E+01	7.23E+01	5.22E+05	3.00E+22	7.80E-01	3.67E-01	5.70E+04	2.23E+04	2.11E+01	1.72E+00	1.72E+00
2032_NA_ Climb Grou	27168.82	86411.47	20392:19:	4.81E+02	9.68E+01	1.12E+02	1.11E+02	1.12E+02	2.97E+02	1.29E+06	3.59E+22	1.17E+00	4.62E-01	8.57E+04	3.36E+04	3.18E+01	3.05E+00	3.05E+00
2032_NA_ Climb Belo	32161.29	216857.5	21108:38:	4.95E+02	9.74E+01	1.12E+02	1.12E+02	1.12E+02	4.16E+02	1.72E+06	3.93E+22	1.39E+00	5.25E-01	1.01E+05	3.98E+04	3.77E+01	3.81E+00	3.81E+00
2032_NA_ Climb Belo	44307.27	622583.8	22882:54:	5.28E+02	9.90E+01	1.14E+02	1.13E+02	1.14E+02	7.06E+02	2.82E+06	4.78E+22	1.91E+00	6.53E-01	1.40E+05	5.48E+04	5.19E+01	5.68E+00	5.68E+00
2032_NA_ Climb Belo	76298.72	2390437	28478:34:	6.45E+02	1.04E+02	1.19E+02	1.18E+02	1.19E+02	1.45E+03	5.51E+06	6.85E+22	3.07E+00	1.59E+00	2.41E+05	9.44E+04	8.94E+01	1.07E+01	1.07E+01
2032_NA_ Above 100	47.04548	8420.11	19:02.8	1.16E+00	6.89E-02	7.96E-02	7.92E-02	7.96E-02	3.55E-01	1.29E+03	9.13E+16	1.69E-03	1.41E-03	1.48E+02	5.82E+01	5.51E-02	4.52E-03	4.52E-03
2032_NA_ Descend B	29906.19	3166366	11350:07:	4.85E+02	4.69E+01	5.39E+01	5.34E+01	5.38E+01	2.16E+02	1.27E+06	6.00E+22	1.26E+00	5.74E-01	9.44E+04	3.70E+04	3.50E+01	3.24E+00	3.24E+00
2032_NA_ Descend B	26030.79	1782323	57:14.9	3.70E+02	3.91E+01	4.50E+01	4.46E+01	4.49E+01	1.96E+02	1.17E+06	5.53E+22	1.12E+00	4.58E-01	8.21E+04	3.22E+04	3.05E+01	2.87E+00	2.87E+00
2032_NA_ Descend B	13149.85	340742.3	24:06.5	2.50E+02	3.04E+01	3.50E+01	3.48E+01	3.50E+01	8.47E+01	4.69E+05	2.39E+22	5.67E-01	2.59E-01	4.15E+04	1.63E+04	1.54E+01	1.34E+00	1.34E+00
2032_NA_ Descend G	9907.72	65731.89	01:56.4	2.15E+02	2.89E+01	3.34E+01	3.32E+01	3.34E+01	5.31E+01	3.35E+05	1.79E+22	4.28E-01	1.84E-01	3.13E+04	1.23E+04	1.16E+01	9.81E-01	9.81E-01
2032_NA_ Taxi In	8002.336	0	40:21.0	2.09E+02	2.85E+01	3.28E+01	3.26E+01	3.28E+01	3.21E+01	2.32E+05	1.33E+22	3.46E-01	1.63E-01	2.52E+04	9.90E+03	9.37E+00	7.64E-01	7.64E-01
2032_NA_ Full Flight	106252	5565224	39869:00:	1.13E+03	1.51E+02	1.73E+02	1.72E+02	1.73E+02	1.66E+03	6.78E+06	1.28E+23	4.34E+00	2.17E+00	3.35E+05	1.31E+05	1.24E+02	1.40E+01	1.40E+01
2032_NA_ GSE LTO	0	0	214708:48	1.71E+02	0.00E+00	7.28E+00	6.73E+00	6.42E+00	1.49E+01	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-01	9.66E-01	1.04E+00
2032_NA_ APU	0	0	22878:42:	2.77E+01	1.62E+00	1.87E+00	1.86E+00	1.87E+00	3.88E+01	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E+00	3.85E+00	3.85E+00
	70338.06	2404907		1097.712	139.6562	168.3265	166.601	167.2028	956.318			3.037	1.11048	221917	87008	87.58144	13.36351	13.4362

Operation	Mode	Fuel (ST)	Distance (r	Duration	CO (ST)	THC (ST)	TOG (ST)	VOC (ST)	NMHC (ST	NOx (ST)	nvPM Mas	nvPM Nun	PMSO (ST)	PMFO (ST)	CO2 (ST)	H2O (ST)	SOx (ST)	PM 2.5 (ST	PM 10 (ST)
AUS_2032	Startup	0	0	00:00.0	0.00E+00	3.50E+01	4.05E+01	4.03E+01	4.05E+01	0.00E+00	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AUS_2032	Taxi Out	19801.11	0	19379:00:(	5.12E+02	6.78E+01	7.82E+01	7.77E+01	7.82E+01	7.95E+01	5.73E+05	3.29E+22	8.55E-01	3.87E-01	6.25E+04	2.45E+04	2.32E+01	1.87E+00	1.87E+00
AUS_2032	Climb Grou	29941.48	94946.33	20196:39::	5.21E+02	1.04E+02	1.20E+02	1.19E+02	1.20E+02	3.30E+02	1.42E+06	3.94E+22	1.29E+00	4.92E-01	9.45E+04	3.70E+04	3.51E+01	3.35E+00	3.35E+00
AUS_2032	Climb Belc	35484.31	234764.5	20912:58:·	5.36E+02	1.05E+02	1.21E+02	1.20E+02	1.21E+02	4.63E+02	1.91E+06	4.32E+22	1.53E+00	5.60E-01	1.12E+05	4.39E+04	4.16E+01	4.20E+00	4.20E+00
AUS_2032	Climb Belc	48963.89	673523.9	22687:14:!	5.70E+02	1.06E+02	1.23E+02	1.22E+02	1.22E+02	7.85E+02	3.12E+06	5.27E+22	2.11E+00	6.99E-01	1.54E+05	6.06E+04	5.73E+01	6.26E+00	6.26E+00
AUS_2032	Climb Belc	84467.72	2586507	28282:54:·	6.89E+02	1.11E+02	1.28E+02	1.27E+02	1.28E+02	1.61E+03	6.11E+06	7.56E+22	3.40E+00	1.74E+00	2.67E+05	1.04E+05	9.89E+01	1.19E+01	1.19E+01
AUS_2032	Above 100	47.04548	8420.11	19:02.8	1.16E+00	6.89E-02	7.96E-02	7.92E-02	7.96E-02	3.55E-01	1.29E+03	9.13E+16	1.69E-03	1.41E-03	1.48E+02	5.82E+01	5.51E-02	4.52E-03	4.52E-03
AUS_2032	Descend B	32940.74	3447014	11248:58:!	5.16E+02	4.94E+01	5.68E+01	5.63E+01	5.67E+01	2.39E+02	1.40E+06	6.62E+22	1.39E+00	6.09E-01	1.04E+05	4.07E+04	3.86E+01	3.55E+00	3.55E+00
AUS_2032	Descend B	28680.28	1945111	48:59.9	3.95E+02	4.11E+01	4.73E+01	4.69E+01	4.71E+01	2.17E+02	1.29E+06	6.10E+22	1.24E+00	4.81E-01	9.05E+04	3.55E+04	3.36E+01	3.14E+00	3.14E+00
AUS_2032	Descend B	14388.57	365547.7	15:51.5	2.67E+02	3.18E+01	3.66E+01	3.63E+01	3.66E+01	9.33E+01	5.15E+05	2.62E+22	6.21E-01	2.71E-01	4.54E+04	1.78E+04	1.69E+01	1.46E+00	1.46E+00
AUS_2032	Descend G	10814.69	72436.55	53:41.4	2.31E+02	3.03E+01	3.49E+01	3.47E+01	3.49E+01	5.83E+01	3.67E+05	1.95E+22	4.67E-01	1.93E-01	3.41E+04	1.34E+04	1.27E+01	1.06E+00	1.06E+00
AUS_2032	Taxi In	8694.676	0	32:06.0	2.24E+02	2.98E+01	3.43E+01	3.41E+01	3.43E+01	3.49E+01	2.52E+05	1.44E+22	3.76E-01	1.70E-01	2.74E+04	1.08E+04	1.02E+01	8.23E-01	8.23E-01
AUS_2032	Full Flight	117455.5	6041941	39572:12:·	1.21E+03	1.61E+02	1.85E+02	1.83E+02	1.85E+02	1.85E+03	7.51E+06	1.42E+23	4.79E+00	2.35E+00	3.71E+05	1.45E+05	1.38E+02	1.54E+01	1.54E+01
AUS_2032	GSE LTO	0	0	214708:48	1.90E+02	0.00E+00	8.06E+00	7.46E+00	7.11E+00	1.65E+01	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-01	1.07E+00	1.15E+00
AUS_2032	APU	0	0	22878:42:(	3.00E+01	1.80E+00	2.08E+00	2.06E+00	2.08E+00	4.32E+01	N/A	N/A	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E+00	4.27E+00	4.27E+00
		77644.17	2618635		1184.35	149.008	179.9342	178.0873	178.7184	1062.186			3.3527	1.17975	244966	96045	96.70424	14.7418	14.8223

	CO	VOC	NOx	PM2.5	PM10	CO2	SO2
Action	1184.35	178.0873	1062.186	14.7418	14.8223	244966	96.70424
No Action	1097.712	166.601	956.318	13.36351	13.4362	221917	87.58144
Net Chang	86.638	11.4863	105.868	1.37829	1.3861	23049	9.1228

DOA Air Emissions
From Boilers and Water Heaters

Existing CUP Natural Gas Usage FOR 2019				
Hundred cubic feet	cubic feet	MM cubic feet	Building Size (sq.ft.)	Usage per Sq. ft. (MM cubic ft of NG)
195,440	19,544,000	19.5440	1,000,000	0.00002

ACTUAL EMISSIONS [Tons Per Year]	Air Emissions Sources	Annual Fuel Usage (MMscf/Year)	Max Heat Input (MMBTU/Hr)	VOC			NO_x		
				EF	EMISSION RATE		EF	EMISSION RATE	
				($lb/10^6$ scf)	(lb/Yr)	(ton/yr)	($lb/10^6$ scf)	(lb/Yr)	(ton/yr)
	Boiler# 193548 - Large Terminal - bldg 7360 (B1) - 9815 Service Rd	9.7720	12.25	5.5	53.7460	0.0269	50	488.6000	0.2443
	Boiler# 193549 - Large Terminl - bldg 7360 (B2) - 9815 Service Rd	9.7720	12.25	5.5	53.7460	0.0269	50	488.6000	0.2443
	TOTAL Actual emissions from boilers					**0.0537**			**0.4886**

Estimated Natural Gas Usage for New CUP (based on 2019 usage but projected to 2.5 million sq/ft)				
Hundred cubic feet	cubic feet	MM cubic feet	Building Size (sq.ft.)	Usage per Sq. ft. (MM cubic ft of NG)
488,600	48,860,000	48.8600	2,500,000	0.00002

PROJECTED EMISSIONS [Tons Per Year]	Air Emissions Sources	Annual Fuel Usage (MMscf/Year)	Max Heat Input (MMBTU/Hr)	VOC			NO_x		
				EF	EMISSION RATE		EF	EMISSION RATE	
				($lb/10^6$ scf)	(lb/Yr)	(ton/yr)	($lb/10^6$ scf)	(lb/Yr)	(ton/yr)
	Boiler# 1 New CUP	9.7720	12.5	5.5	53.7460	0.0269	50	488.6000	0.2443
	Boiler# 2 New CUP	9.7720	12.5	5.5	53.7460	0.0269	50	488.6000	0.2443
	Boiler# 3 New CUP	9.7720	12.5	5.5	53.7460	0.0269	50	488.6000	0.2443
	Boiler# 4 New CUP	9.7720	12.5	5.5	53.7460	0.0269	50	488.6000	0.2443
	Boiler# 5 New CUP	9.7720	12.5	5.5	53.7460	0.0269	50	488.6000	0.2443
	TOTAL Actual emissions from boilers					**0.1344**			**1.2215**

Assumption:
- boiler is operating 100% percent of the time at 100% of it's capacity, since calculating for PTE not actual operations

Notes: AP-42,
- Tables 1.4-1 and 1.4-2, Controlled - Low NOx burners
- noted tables, July 1998
- heating value of natural gas = 1020 BTU/scf

DOA Air Emissions
From Boilers and Water Heaters

SO_2			CO			PM (total)			TOC			CO2			Methane	
EF	EMISSION RATE		EF	EMISSION RATE		EF	EMISSION RATE		EF	EMISSION RATE		EF	EMISSION RATE		EF	EMISS
(lb/10^6 scf)	(lb/Yr)	(ton/yr)	(lb/10^6 scf)	(lb/Yr)	(ton/yr)	(lb/10^6 scf)	(lb/Yr)	(ton/yr)	(lb/10^6 scf)	(lb/Yr)	(ton/yr)	(lb/10^6 scf)	(lb/Yr)	(metric ton/yr)	(lb/10^6 scf)	(lb/Yr)
0.6	5.8632	0.0029	84	820.8480	0.4104	7.6	74.2672	0.0371	11	107.4920	0.0537	120000	1172640.0000	586.3200	2.3	22.4756
0.6	5.8632	0.0029	84	820.8480	0.4104	7.6	74.2672	0.0371	11	107.4920	0.0537	120000	1172640.0000	586.3200	2.3	22.4756
		0.0059			**0.8208**			**0.0743**			**0.1075**			**1063.8014**		

SO_2			CO			PM (total)			TOC			CO2			Methane	
EF	EMISSION RATE		EF	EMISSION RATE		EF	EMISSION RATE		EF	EMISSION RATE		EF	EMISSION RATE		EF	EMISS
(lb/10^6 scf)	(lb/Yr)	(ton/yr)	(lb/10^6 scf)	(lb/Yr)	(ton/yr)	(lb/10^6 scf)	(lb/Yr)	(ton/yr)	(lb/10^6 scf)	(lb/Yr)	(ton/yr)	(lb/10^6 scf)	(lb/Yr)	(metric ton/yr)	(lb/10^6 scf)	(lb/Yr)
0.6	5.8632	0.0029	84	820.8480	0.4104	7.6	74.2672	0.0371	11	107.4920	0.0537	120000	1172640.0000	586.3200	2.3	22.4756
0.6	5.8632	0.0029	84	820.8480	0.4104	7.6	74.2672	0.0371	11	107.4920	0.0537	120000	1172640.0000	586.3200	2.3	22.4756
0.6	5.8632	0.0029	84	820.8480	0.4104	7.6	74.2672	0.0371	11	107.4920	0.0537	120001	1172649.7720	586.3249	3.3	32.2476
0.6	5.8632	0.0029	84	820.8480	0.4104	7.6	74.2672	0.0371	11	107.4920	0.0537	120002	1172659.5440	586.3298	4.3	42.0196
0.6	5.8632	0.0029	84	820.8480	0.4104	7.6	74.2672	0.0371	11	107.4920	0.0537	120003	1172669.3160	586.3347	5.3	51.7916
		0.0147			**2.0521**			**0.1857**			**0.2687**			**2659.5301**		

Net Change 1,596

Data comes from texas gas service

DOA Air Emissions
From Boilers and Water Heaters

	Nitrous Oxide			CO2 Equivalent (Metric Tons)
ION RATE	EF	EMISSION RATE		
(metric ton/yr)	(lb/10^6 scf)	(lb/Yr)	(metric ton/yr)	
0.0112	0.64	6.2541	0.0031	
0.0112	0.64	6.2541	0.0031	
0.0204			**0.0057**	1,066.0

	Nitrous Oxide			CO2 Equivalent (Metric Tons)
ION RATE	EF	EMISSION RATE		
(metric ton/yr)	(lb/10^6 scf)	(lb/Yr)	(metric ton/yr)	
0.0112	0.64	6.2541	0.0031	
0.0112	0.64	6.2541	0.0031	
0.0161	1.64	16.0261	0.0080	
0.0210	2.64	25.7981	0.0129	
0.0259	3.64	35.5701	0.0178	
0.0776			**0.0408**	2,673.6
0.06			0.04	1,608

AUS Ground Access Vehicles

		No Project		Preferred Alternative		Delta		
Segment	Distance	2032	VMT	2032	VMT	(Build-No Build)	Daily Delta	VMT
Incoming	1	2,396	2,396	2,719	2,719	323	3230	3230
Outgoing	1.1	2,409	2,650	2,735	3,009	326	3260	3586
Idle	0	2,409		2,735	0	326	3260	3260

Average Speeds assuming 30 mph

Idling assumings 5 minutes per hour per vehicle

ADT assumes Peak PM values represent 10 percent of daily traffic

AUS Ground Access Vehicles

MOVES3 2032 Emission Factors									
CO	NOx	PM10	PM2.5	VOC	Sox	CH4	N2O	CO2	
2.63	0.0145	0.0015	0.00138	0.0113	0.001798	0.00596	0.001317	270.662	
2.63	0.0145	0.0015	0.00138	0.0113	0.001798	0.00596	0.001317	270.662	
8.81	0.031	0.00745	0.00659	0.0373	0.0105	0.0195	0.0158	1587	
									Totals

AUS Ground Access Vehicles

MOVES3 2032 Emissions TPY								
CO	NOx	PM10	PM2.5	VOC	SO2	CH4	N2O	CO2
3.415402	0.01883	0.001948	0.001792	0.014675	0.002335	0.00774	0.00171	351.4903
3.791836	0.020906	0.002163	0.00199	0.016292	0.002592	0.008593	0.001899	390.2304
0.962267	0.003386	0.000814	0.00072	0.004074	0.001147	0.00213	0.001726	173.3392
8.169506	**0.043122**	**0.004924**	**0.004502**	**0.035041**	**0.006074**	**0.018463**	**0.005335**	**915.06**
				GWP		**0.516954**	**1.413734**	**915.06**
								916.9906

AUS New Parking Area

Proposed Action									
Location	Levels	Total Parking Build	Total Per Level	Length	Width	Half In	Half Out	Total Distance (ft)	Total Distance (mile)
New Employee Parking	1	3150	3150	2450	500	1475	1475	2950	0.56

AUS New Parking Area

MOVES3 2032 Emission Factors								
CO	NOx	PM10	PM2.5	VOC	Sox	CH4	N2O	CO2
3.760	0.017	0.002	0.002	0.015	0.003	0.008	0.003	404.600

AUS New Parking Area

MOVES3 2032 Emissions TPY								
CO	NOx	PM10	PM2.5	VOC	SO2	CH4	N2O	CO2
2.660542	0.012312	0.001698	0.001415	0.010614	0.001896	0.005661	0.002123	286.2913
2.66	0.012	0.002	0.001	0.011	0.002	0.005	0.002	259.91
				GWP		0.143895	0.510697	259.9095
								260.5641

Notes

1. Assumes the vehicles travel 15 mph and assumes vehicles enter halfway in and halfway out
2. Assumes parking area is filled every day for 365 days per year.
3. GHG emissions totals are Metric Tons

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