APPENDIX E

NEAT Model Data Report

Draft Supplemental Environmental Assessment
Maintenance Dredging Fort Myers Beach Harbor, Federal Navigation Project with Expanded Beach and Nearshore Placement, Lee County, Florida
NEPA ID: SEAX-202-00-K3P-1754056029

U.S. Army Corps of Engineers
JACKSONVILLE DISTRICT

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	Calculation of Emissions Using Fuel Volumes				
	GHG	**Fuel Volume[1] (Gallons)**	**Emissions Factor[2] (Grams of Emissions/ Gallons of Fuel)**	**Emissions[3] (grams)**	**Fuel Volumes Debugging - Error Message**
No Action Alternative: Dredging	CO_2	173,000	10,210.00	1,766,330,000.00	Sufficient Data Has Been Input
	CH_4	173,000	6.51	1,126,230.00	#N/A
	N_2O	173,000	0.17	29,410.00	#N/A

	Calculation of Emissions Using Fuel Volumes				
	GHG	**Fuel Volume[1] (Gallons)**	**Emissions Factor[2] (Grams of Emissions/ Gallons of Fuel)**	**Emissions[3] (grams)**	**Fuel Volumes Debugging - Error Message**
No Action Alternative: Upland	CO_2	82,774	10,210.00	845,122,540.00	Sufficient Data Has Been Input
	CH_4	82,774	1.01	83,601.74	#N/A
	N_2O	82,774	0.94	77,807.56	#N/A

	Calculation of Emissions Using Fuel Volumes				
	GHG	**Fuel Volume[1] (Gallons)**	**Emissions Factor[2] (Grams of Emissions/ Gallons of Fuel)**	**Emissions[3] (grams)**	**Fuel Volumes Debugging - Error Message**
Action Alternative: 2 Dredging	CO_2	173,000	10,210.00	1766330000	Sufficient Data Has Been Input
	CH_4	173,000	6.51	1126230	#N/A
	N_2O	173,000	0.17	29410	#N/A

	Calculation of Emissions Using Fuel Volumes				
	GHG	**Fuel Volume[1] (Gallons)**	**Emissions Factor[2] (Grams of Emissions/ Gallons of Fuel)**	**Emissions[3] (grams)**	**Fuel Volumes Debugging - Error Message**
Action Alternative: 3 Dredging	CO_2	173,000	10,210.00	1766330000	Sufficient Data Has Been Input
	CH_4	173,000	6.51	1126230	#N/A
	N_2O	173,000	0.17	29410	#N/A

	Calculation of Emissions Using Fuel Volumes				
	GHG	**Fuel Volume[1] (Gallons)**	**Emissions Factor[2] (Grams of Emissions/ Gallons of Fuel)**	**Emissions[3] (grams)**	**Fuel Volumes Debugging - Error Message**
Action Alternative: 3 Upland	CO_2	82,774	10,210.00	845122540	Sufficient Data Has Been Input
	CH_4	82,774	1.01	83601.74	#N/A
	N_2O	82,774	0.94	77807.56	#N/A

	Calculation of Emissions Using Fuel Volumes				
	GHG	**Fuel Volume[1] (Gallons)**	**Emissions Factor[2] (Grams of Emissions/ Gallons of Fuel)**	**Emissions[3] (grams)**	**Fuel Volumes Debugging - Error Message**
Action Alternative: 4 Dredging	CO_2	173,000	10,210.00	1766330000	Sufficient Data Has Been Input
	CH_4	173,000	6.51	1126230	#N/A
	N_2O	173,000	0.17	29410	#N/A

Total Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)	CO_2e MT
No Action Alternative: Dredging	CO_2	**1,766,330,000**	3894094.252	1766.33	1,766.33
	CH_4	**1,126,230**	2482.914161	1.12623	28.16
	N_2O	**29,410**	64.8380042	0.02941	8.76
				Σ	1,803.25

NEAT Input ↓

		Emissions Total (grams)	Emissions Total (MT)	CO_2e(MT)
Total No Action Alternative	CO_2	2,611,452,540	2,611.45	2,611.45
	CH_4	1,209,832	1.21	30.25
	N_2O	107,218	0.11	31.95
Offshore + Non-Road			Σ	2,673.65

Total Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)	CO_2e MT
No Action Alternative: Upland	CO_2	**845,122,540**	1863177.79	845.12254	845.12
	CH_4	**83,602**	184.3104376	0.08360174	2.09
	N_2O	**77,808**	171.5364469	0.07780756	23.19
				Σ	870.40

Total Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)	CO_2e MT
Action Alternative: 2 Dredging	CO_2	1,766,330,000	3894094.252	1,766.33	1,766.33
	CH_4	1,126,230	2482.914161	1.13	28.16
	N_2O	29,410	64.8380042	0.03	8.76
				Σ	1,803.25

NEAT Input ↓

		Emissions Total (grams)
Total Alternative 2	CO_2	1,766,330,000
	CH_4	1,126,230
	N_2O	29,410
Offshore Only		

Total Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)	CO_2e MT
Action Alternative: 3 Dredging	CO_2	1,766,330,000	3894094.252	1766.33	1,766.33
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NEAT Input ↓

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	CH_4	1,126,230	2482.914161	1.12623	28.16
	N_2O	29,410	64.8380042	0.02941	8.76
				Σ	1,803.25

NEAT Input ↓

		Emissions Total (grams)
Total Alternative 4	CO_2	1,766,330,000
	CH_4	1,126,230
	N_2O	29,410
Offshore Only		

Lifetime O&M Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)
No Action Alternative: Dredging	CO_2	28,261,280,000	62305508.03	28261.28
	CH_4	18,019,680	39726.62657	18.01968
	N_2O	470,560	1037.408067	0.47056

Annual O&M Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)
No Action Alternative: Dredging	CO_2	565,225,600	1246110.16	565.2256
	CH_4	360,394	794.532531	0.3603936
	N_2O	9,411	20.7481613	0.0094112

NEAT Input ↓

		Emissions Total (grams)	Annual Emissions Total (MT)	Lifetime Emissions Total (MT)	CO_2e(MT)
Total No Action Alternative	CO_2	**835,664,813**	835.66	41,783.24	41,783.24
	CH_4	**387,146**	0.39	19.36	483.93
	N_2O	**34,310**	0.03	1.72	511.21
Offshore + Non-Road				Σ	42,778.39

Lifetime O&M Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)
No Action Alternative: Upland	CO_2	13,521,960,640	29810844.64	13521.96064
	CH_4	1,337,628	2948.967001	1.33762784
	N_2O	1,244,921	2744.58315	1.24492096

Annual O&M Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)
No Action Alternative: Upland	CO_2	270,439,213	596216.893	270.4392128
	CH_4	26,753	58.97934	0.026752557
	N_2O	24,898	54.891663	0.024898419

Lifetime O&M Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)
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NEAT Input ↓

		Emissions Total (grams)	Annual Emissions Total (MT)	Lifetime Emissions Total (MT)	CO_2e(MT)
Total Alternative 2	CO_2	**565,225,600**	565.23	28,261.28	28,261.28
	CH_4	**360,394**	0.36	18.02	450.49
	N_2O	**9,411**	0.01	0.47	140.23
Offshore Only				Σ	28,852.00

Lifetime O&M Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)
Action Alternative: 3 Dredging	CO_2	28,261,280,000	62305508.03	28261.28
	CH_4	18,019,680	39726.62657	18.01968
	N_2O	470,560	1037.408067	0.47056

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NEAT Input ↓

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Total Alternative 3	CO_2	**835,664,813**	835.66	41,783.24	41,783.24
	CH_4	**387,146**	0.39	19.36	483.93
	N_2O	**34,310**	0.03	1.72	511.21
Offshore + Non-Road				Σ	42,778.39

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	N_2O	1,244,921	2744.58315	1.24492096

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	CH_4	26,753	58.97934	0.026752557
	N_2O	24,898	54.891663	0.024898419

Lifetime O&M Emissions from Fuel and Miles

		Emissions Total (grams)	Emissions Total (pounds)	Emissions Total (Metric Tons)
Action Alternative: 4 Dredging	CO_2	28,261,280,000	62305508.03	28261.28
	CH_4	18,019,680	39726.62657	18.01968
	N_2O	470,560	1037.408067	0.47056

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NEAT Input ↓

		Emissions Total (grams)	Annual Emissions Total (MT)	Lifetime Emissions Total (MT)	CO_2e(MT)
Total Alternative 4	CO_2	**565,225,600**	565.23	28,261.28	28,261.28
	CH_4	**360,394**	0.36	18.02	450.49
	N_2O	**9,411**	0.01	0.47	140.23
Offshore Only				Σ	28,852.00

A model can be theoretically perfect, but the quality of the outputs are still dependent on the data that is used! Please use the space below to track your data s

NEAT Model Step	Data Source	Assumptions
Step 1: Project Data	Dredging data based on Fort Myers 2023 project. Upland data based on Gasparilla FY19 project.	Fuel volumes for past projects will be similar to the current one.
Step 2: Construction Emissions	Combination of two events above.	All nearshore disposal alternatives generate similar emissions.
Step 3: O&M Emissions	Past dredging projects	Assume dredging every three years. 16 events in 50 years.
Step 4: Wetland and Aquatic Habitat Emissions	N/A	
Step 5: Emobied Carbon in Materials	N/A	
Step 6: Net Emissions	No Action Alternative description from Supplemental EA	No Action Alternative is continuation of current operations.
~~Step 7: Social Costs of Greenhouse Gas~~		

		Construction Timing			Operations & Maintenance, Monitoring and Management Timing		
Alternative Sequential Identifier	Input Names for Project Alternatives/Construction Phases:	Starting Year	Ending Year	Construction Years Total	Starting Year	Ending Year	O&M Project Lifetime (default is 50 years)
1	No Action Alternative	2026	2026	1	2027	2077	50
2	Alternative 2	2026	2026	1	2027	2077	50
3	Alternative 3	2026	2026	1	2027	2077	50
4	Alternative 4	2026	2026	1	2027	2077	50
5	Alternative 5	Choose Construction Starting Year	Choose Construction End Year	Ending year input must be equal or more than starting year value	Choose a Construction End Year First	Choose a Construction End Year First	50
6	Alternative 6	Choose Construction Starting Year	Choose Construction End Year	Ending year input must be equal or more than starting year value	Choose a Construction End Year First	Choose a Construction End Year First	50
7	Alternative 7	Choose Construction Starting Year	Choose Construction End Year	Ending year input must be equal or more than starting year value	Choose a Construction End Year First	Choose a Construction End Year First	50
8	Alternative 8	Choose Construction Starting Year	Choose Construction End Year	Ending year input must be equal or more than starting year value	Choose a Construction End Year First	Choose a Construction End Year First	50

Note - the O&M project lifetime gets used to calculate Net emissions and also carries through to the social costs which are calculated for each specific year.
The dates of construction start and end carry through most all subsequent steps for calculations.

No Action Alternative	Year:	2026			2026			2026		
Air Quality Pollutant Emissions (Clean Air Act)		Grams	Pounds	Metric Tons	Grams	Pounds	Metric Tons	Grams	Pounds	Metric Tons
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)			0.00	0.00		0.00	0.00		0.00	0.00
Carbon Monoxide (CO)			0.00	0.00		0.00	0.00		0.00	0.00
Sulfur Oxides (SOx)			0.00	0.00		0.00	0.00		0.00	0.00
Nitrous Oxides (NOx)			0.00	0.00		0.00	0.00		0.00	0.00
Particulate Matter - 2.5 micron ($PM_{2.5}$)			0.00	0.00		0.00	0.00		0.00	0.00
Particulate Matter - 10 micron (PM_{10})			0.00	0.00		0.00	0.00		0.00	0.00
Lead (Pb)			0.00	0.00		0.00	0.00		0.00	0.00
Greenhouse Gas Emissions (NEPA)	Year:	2026			2026			2026		
Carbon Dioxide (CO_2)		2,611,452,540.00	#######	2,611.46		0.00	0.00		0.00	0.00
Methane (CH_4)		1,209,831.74	2,667.22	1.21		0.00	0.00		0.00	0.00
Nitrous Oxide (N_2O)		107,217.56	236.37	0.11		0.00	0.00		0.00	0.00

Alternative 2	Year:	2026			2026			2026		
Air Quality Pollutant Emissions (Clean Air Act)		Grams	Pounds	Metric Tons	Grams	Pounds	Metric Tons	Grams	Pounds	Metric Tons
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)			0.00	0.00		0.00	0.00		0.00	0.00
Carbon Monoxide (CO)			0.00	0.00		0.00	0.00		0.00	0.00
Sulfur Oxides (SOx)			0.00	0.00		0.00	0.00		0.00	0.00
Nitrous Oxides (NOx)			0.00	0.00		0.00	0.00		0.00	0.00
Particulate Matter - 2.5 micron ($PM_{2.5}$)			0.00	0.00		0.00	0.00		0.00	0.00
Particulate Matter - 10 micron (PM_{10})			0.00	0.00		0.00	0.00		0.00	0.00
Lead (Pb)			0.00	0.00		0.00	0.00		0.00	0.00
Greenhouse Gas Emissions (NEPA)	Year:	2026			2026			2026		
Carbon Dioxide (CO_2)		1,766,330,000.00	#######	1,766.33		0.00	0.00		0.00	0.00
Methane (CH_4)		1,126,230.00	2,482.91	1.13		0.00	0.00		0.00	0.00
Nitrous Oxide (N_2O)		29,410.00	64.84	0.03		0.00	0.00		0.00	0.00

Alternative 3	Year:	2026			2026			2026		
Air Quality Pollutant Emissions (Clean Air Act)		Grams	Pounds	Metric Tons	Grams	Pounds	Metric Tons	Grams	Pounds	Metric Tons
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)			0.00	0.00		0.00	0.00		0.00	0.00
Carbon Monoxide (CO)			0.00	0.00		0.00	0.00		0.00	0.00
Sulfur Oxides (SOx)			0.00	0.00		0.00	0.00		0.00	0.00
Nitrous Oxides (NOx)			0.00	0.00		0.00	0.00		0.00	0.00
Particulate Matter - 2.5 micron ($PM_{2.5}$)			0.00	0.00		0.00	0.00		0.00	0.00
Particulate Matter - 10 micron (PM_{10})			0.00	0.00		0.00	0.00		0.00	0.00
Lead (Pb)			0.00	0.00		0.00	0.00		0.00	0.00
Greenhouse Gas Emissions (NEPA)	Year:	2026			2026			2026		
Carbon Dioxide (CO_2)		2,611,452,540.00	#######	2,611.46		0.00	0.00		0.00	0.00
Methane (CH_4)		1,209,831.74	2,667.22	1.21		0.00	0.00		0.00	0.00
Nitrous Oxide (N_2O)		107,217.56	236.37	0.11		0.00	0.00		0.00	0.00

Alternative 4	Year:	2026			2026			2026		
Air Quality Pollutant Emissions (Clean Air Act)		Grams	Pounds	Metric Tons	Grams	Pounds	Metric Tons	Grams	Pounds	Metric Tons
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)			0.00	0.00		0.00	0.00		0.00	0.00
Carbon Monoxide (CO)			0.00	0.00		0.00	0.00		0.00	0.00
Sulfur Oxides (SOx)			0.00	0.00		0.00	0.00		0.00	0.00
Nitrous Oxides (NOx)			0.00	0.00		0.00	0.00		0.00	0.00
Particulate Matter - 2.5 micron ($PM_{2.5}$)			0.00	0.00		0.00	0.00		0.00	0.00
Particulate Matter - 10 micron (PM_{10})			0.00	0.00		0.00	0.00		0.00	0.00
Lead (Pb)			0.00	0.00		0.00	0.00		0.00	0.00
Greenhouse Gas Emissions (NEPA)	Year:	2026			2026			2026		
Carbon Dioxide (CO_2)		1,766,330,000.00	#######	1,766.33		0.00	0.00		0.00	0.00
Methane (CH_4)		1,126,230.00	2,482.91	1.13		0.00	0.00		0.00	0.00
Nitrous Oxide (N_2O)		29,410.00	64.84	0.03		0.00	0.00		0.00	0.00

	Yearly O&M Emissions				Project Lifetime O&M Emissions		
No Action Alternative Years	1				50		
Air Quality Pollutant Emissions (Clean Air Act)	Grams	Pounds	Metric Tons		Grams	Pounds	Metric Tons
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)		0.00	0.00		0.00	0.00	0.00
Carbon Monoxide (CO)		0.00	0.00		0.00	0.00	0.00
Sulfur Oxides (SOx)		0.00	0.00		0.00	0.00	0.00
Nitrous Oxides (NOx)		0.00	0.00		0.00	0.00	0.00
Particulate Matter - 2.5 micron ($PM_{2.5}$)		0.00	0.00		0.00	0.00	0.00
Particulate Matter - 10 micron (PM_{10})		0.00	0.00		0.00	0.00	0.00
Lead - (Pb)		0.00	0.00		0.00	0.00	0.00
Greenhouse Gas Emissions (NEPA)							
Carbon Dioxide (CO_2)	835,664,812.80	1,842,327.05	835.67		##############	92,116,352.67	41,783.32
Methane (CH_4)	387,146.16						
Nitrous Oxide (N_2O)	34,309.62	75.64	0.03		1,715,480.96	3,781.99	1.72

	Yearly O&M Emissions				Project Lifetime O&M Emissions		
Alternative 2 Years	1				50		
Air Quality Pollutant Emissions (Clean Air Act)	Grams	Pounds	Metric Tons		Grams	Pounds	Metric Tons
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)		0.00	0.00		0.00	0.00	0.00
Carbon Monoxide (CO)		0.00	0.00		0.00	0.00	0.00
Sulfur Oxides (SOx)		0.00	0.00		0.00	0.00	0.00
Nitrous Oxides (NOx)		0.00	0.00		0.00	0.00	0.00
Particulate Matter - 2.5 micron ($PM_{2.5}$)		0.00	0.00		0.00	0.00	0.00
Particulate Matter - 10 micron (PM_{10})		0.00	0.00		0.00	0.00	0.00
Lead - (Pb)		0.00	0.00		0.00	0.00	0.00
Greenhouse Gas Emissions (NEPA)							
Carbon Dioxide (CO_2)	565,225,600.00	1,246,110.16	565.23		##############	62,305,508.03	28,261.34
Methane (CH_4)	360,393.60	794.53	0.36		18,019,680.00	39,726.63	18.02
Nitrous Oxide (N_2O)	9,411.20	20.75	0.01		470,560.00	1,037.41	0.47

	Yearly O&M Emissions				Project Lifetime O&M Emissions		
Alternative 3 Years	1				50		
Air Quality Pollutant Emissions (Clean Air Act)	Grams	Pounds	Metric Tons		Grams	Pounds	Metric Tons
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)		0.00	0.00		0.00	0.00	0.00
Carbon Monoxide (CO)		0.00	0.00		0.00	0.00	0.00
Sulfur Oxides (SOx)		0.00	0.00		0.00	0.00	0.00
Nitrous Oxides (NOx)		0.00	0.00		0.00	0.00	0.00
Particulate Matter - 2.5 micron ($PM_{2.5}$)		0.00	0.00		0.00	0.00	0.00
Particulate Matter - 10 micron (PM_{10})		0.00	0.00		0.00	0.00	0.00
Lead - (Pb)		0.00	0.00		0.00	0.00	0.00
Greenhouse Gas Emissions (NEPA)							
Carbon Dioxide (CO_2)	835,664,812.80	1,842,327.05	835.67		##############	92,116,352.67	41,783.32
Methane (CH_4)	387,146.16	853.51	0.39		19,357,307.84	42,675.59	19.36
Nitrous Oxide (N_2O)	34,309.62	75.64	0.03		1,715,480.96	3,781.99	1.72

	Yearly O&M Emissions				Project Lifetime O&M Emissions		
Alternative 4 Years	1				50		
Air Quality Pollutant Emissions (Clean Air Act)	Grams	Pounds	Metric Tons		Grams	Pounds	Metric Tons
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)		0.00	0.00		0.00	0.00	0.00
Carbon Monoxide (CO)		0.00	0.00		0.00	0.00	0.00
Sulfur Oxides (SOx)		0.00	0.00		0.00	0.00	0.00
Nitrous Oxides (NOx)		0.00	0.00		0.00	0.00	0.00
Particulate Matter - 2.5 micron ($PM_{2.5}$)		0.00	0.00		0.00	0.00	0.00
Particulate Matter - 10 micron (PM_{10})		0.00	0.00		0.00	0.00	0.00
Lead - (Pb)		0.00	0.00		0.00	0.00	0.00
Greenhouse Gas Emissions (NEPA)							
Carbon Dioxide (CO_2)	565,225,600.00	1,246,110.16	565.23		##############	62,305,508.03	28,261.34
Methane (CH_4)	360,393.60	794.53	0.36		18,019,680.00	39,726.63	18.02
Nitrous Oxide (N_2O)	9,411.20	20.75	0.01		470,560.00	1,037.41	0.47

Gross and Net Total Emissions for the project alternatives are calculated below:

Include O&M Air Pollutant Emissions In Net Calculations: YES

	Gross Emissions			Net Emissions		
No Action Alternative						
Pollutant Emissions (Clean Air Act)	**Grams**	**Pounds**	**Metric Tons**	**Grams**	**Pounds**	**Metric Tons**
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)	0	0	0	0	0	0
Carbon Monoxide (CO)	0	0	0	0	0	0
Sulfur Oxides (SOx)	0	0	0	0	0	0
Nitrous Oxides (NOx)	0	0	0	0	0	0
Particulate Matter - 2.5 micron ($PM_{2.5}$)	0	0	0	0	0	0
Particulate Matter - 10 micron (PM_{10})	0	0	0	0	0	0
Lead - (Pb)	0	0	0	0	0	0
Greenhouse Gas Emissions (NEPA)						
Carbon Dioxide (CO_2)	44,394,693,180	97,873,625	44,395	0	0	0
Methane (CH_4)	20,567,140	45,343	21	0	0	0
Nitrous Oxide (N_2O)	1,822,699	4,018	2	0	0	0
Carbon Dioxide Equivalents (CO_2e)	45,452,035,828	100,204,668	45,452	0	0	0
Alternative 2						
Pollutant Emissions (Clean Air Act)	**Grams**	**Pounds**	**Metric Tons**	**Grams**	**Pounds**	**Metric Tons**
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)	0	0	0	0	0	0
Carbon Monoxide (CO)	0	0	0	0	0	0
Sulfur Oxides (SOx)	0	0	0	0	0	0
Nitrous Oxides (NOx)	0	0	0	0	0	0
Particulate Matter - 2.5 micron ($PM_{2.5}$)	0	0	0	0	0	0
Particulate Matter - 10 micron (PM_{10})	0	0	0	0	0	0
Lead - (Pb)	0	0	0	0	0	0
Greenhouse Gas Emissions (NEPA)						
Carbon Dioxide (CO_2)	30,027,610,000	66,199,602	30,028	-14,367,083,180	-31,674,022	-14,367
Methane (CH_4)	19,145,910	42,210	19	-1,421,230	-3,133	-1
Nitrous Oxide (N_2O)	499,970	1,102	0	-1,322,729	-2,916	-1
Carbon Dioxide Equivalents (CO_2e)	30,655,248,810	67,583,310	30,655	-14,796,787,018	-32,621,358	-14,797
Alternative 3						
Pollutant Emissions (Clean Air Act)	**Grams**	**Pounds**	**Metric Tons**	**Grams**	**Pounds**	**Metric Tons**
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)	0	0	0	0	0	0
Carbon Monoxide (CO)	0	0	0	0	0	0
Sulfur Oxides (SOx)	0	0	0	0	0	0
Nitrous Oxides (NOx)	0	0	0	0	0	0
Particulate Matter - 2.5 micron ($PM_{2.5}$)	0	0	0	0	0	0
Particulate Matter - 10 micron (PM_{10})	0	0	0	0	0	0
Lead - (Pb)	0	0	0	0	0	0
Greenhouse Gas Emissions (NEPA)						
Carbon Dioxide (CO_2)	44,394,693,180	97,873,625	44,395	0	0	0
Methane (CH_4)	20,567,140	45,343	21	0	0	0
Nitrous Oxide (N_2O)	1,822,699	4,018	2	0	0	0
Carbon Dioxide Equivalents (CO_2e)	45,452,035,828	100,204,668	45,452	0	0	0
Alternative 4						
Pollutant Emissions (Clean Air Act)	**Grams**	**Pounds**	**Metric Tons**	**Grams**	**Pounds**	**Metric Tons**
Reactive Organic Gases aka Volatile Organic Compounds (ROG/VOC)	0	0	0	0	0	0
Carbon Monoxide (CO)	0	0	0	0	0	0
Sulfur Oxides (SOx)	0	0	0	0	0	0
Nitrous Oxides (NOx)	0	0	0	0	0	0
Particulate Matter - 2.5 micron ($PM_{2.5}$)	0	0	0	0	0	0
Particulate Matter - 10 micron (PM_{10})	0	0	0	0	0	0
Lead - (Pb)	0	0	0	0	0	0
Greenhouse Gas Emissions (NEPA)						
Carbon Dioxide (CO_2)	30,027,610,000	66,199,602	30,028	-14,367,083,180	-31,674,022	-14,367
Methane (CH_4)	19,145,910	42,210	19	-1,421,230	-3,133	-1
Nitrous Oxide (N_2O)	499,970	1,102	0	-1,322,729	-2,916	-1
Carbon Dioxide Equivalents (CO_2e)	30,655,248,810	67,583,310	30,655	-14,796,787,018	-32,621,358	-14,797