

Appendix A
CalEEMod REPORT

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL
Kings County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	0.00		10.50	49,000.00	0
Parking Lot	101.00	Space	0.91	40,400.00	0
Other Asphalt Surfaces	60.00	1000sqft	1.38	60,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	37
Climate Zone	3			Operational Year	2021

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

Project Characteristics -

Land Use - 101 parking spaces

Construction Phase - No demo on site, grading duration reduced because site has been previously graded. Construction duration reduced due to size of project.

Grading - Graded acres reduced to 13 (size of project site).

Architectural Coating - 49,000 sq ft of building proposed, parking lot estimated at 600 X 160 ft

Construction Off-road Equipment Mitigation - Water exposed area 2x daily

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Off-road Equipment - Equipment numbers reduced for project size

Off-road Equipment - Equipment numbers reduced due to project size

Off-road Equipment -

Off-road Equipment - Equipment reduced due to project size

Off-road Equipment -

Vehicle Trips - 1373 daily trips to/from school site

Off-road Equipment - No demo

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	300.00	200.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	PhaseEndDate	4/16/2021	11/27/2020
tblConstructionPhase	PhaseEndDate	12/27/2019	12/1/2019
tblConstructionPhase	PhaseEndDate	2/21/2020	2/7/2020
tblGrading	AcresOfGrading	30.00	13.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	15.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	15.00

2.0 Emissions Summary

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.8370	29.2013	13.8718	0.0254	12.2625	1.4917	13.7542	6.6775	1.3724	8.0499	0.0000	2,523.7647	2,523.7647	0.7425	0.0000	2,542.3283
2020	3.3060	36.1091	21.8727	0.0431	12.2129	1.5998	13.5910	6.6653	1.4718	7.9332	0.0000	4,183.0137	4,183.0137	1.3116	0.0000	4,215.8043
2021	36.4363	6.5103	7.7589	0.0125	0.1232	0.3397	0.4629	0.0327	0.3125	0.3452	0.0000	1,208.5754	1,208.5754	0.3605	0.0000	1,217.5886
Maximum	36.4363	36.1091	21.8727	0.0431	12.2625	1.5998	13.7542	6.6775	1.4718	8.0499	0.0000	4,183.0137	4,183.0137	1.3116	0.0000	4,215.8043

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.8370	29.2013	13.8718	0.0254	5.6382	1.4917	7.1299	3.0362	1.3724	4.4086	0.0000	2,523.7647	2,523.7647	0.7425	0.0000	2,542.3283
2020	3.3060	36.1091	21.8727	0.0431	5.5886	1.5998	6.9667	3.0240	1.4718	4.2920	0.0000	4,183.0137	4,183.0137	1.3116	0.0000	4,215.8043
2021	36.4363	6.5103	7.7589	0.0125	0.1232	0.3397	0.4629	0.0327	0.3125	0.3452	0.0000	1,208.5754	1,208.5754	0.3605	0.0000	1,217.5886
Maximum	36.4363	36.1091	21.8727	0.0431	5.6382	1.5998	7.1299	3.0362	1.4718	4.4086	0.0000	4,183.0137	4,183.0137	1.3116	0.0000	4,215.8043

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	53.86	0.00	47.64	54.45	0.00	44.60	0.00	0.00	0.00	0.00	0.00	0.00

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2839	1.5000e-004	0.0165	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0352	0.0352	9.0000e-005		0.0376
Energy	0.0364	0.3305	0.2776	1.9800e-003		0.0251	0.0251		0.0251	0.0251		396.5802	396.5802	7.6000e-003	7.2700e-003	398.9369
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.3202	0.3306	0.2941	1.9800e-003	0.0000	0.0252	0.0252	0.0000	0.0252	0.0252		396.6154	396.6154	7.6900e-003	7.2700e-003	398.9744

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2839	1.5000e-004	0.0165	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0352	0.0352	9.0000e-005		0.0376
Energy	0.0364	0.3305	0.2776	1.9800e-003		0.0251	0.0251		0.0251	0.0251		396.5802	396.5802	7.6000e-003	7.2700e-003	398.9369
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	1.3202	0.3306	0.2941	1.9800e-003	0.0000	0.0252	0.0252	0.0000	0.0252	0.0252		396.6154	396.6154	7.6900e-003	7.2700e-003	398.9744

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/2/2019	12/1/2019	5	0	
2	Site Preparation	Site Preparation	12/28/2019	1/10/2020	5	10	
3	Grading	Grading	1/11/2020	2/7/2020	5	20	
4	Building Construction	Building Construction	2/22/2020	11/27/2020	5	200	
5	Paving	Paving	4/17/2021	5/14/2021	5	20	
6	Architectural Coating	Architectural Coating	5/15/2021	6/11/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 13

Acres of Paving: 2.29

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 73,500; Non-Residential Outdoor: 24,500; Striped Parking Area: 6,024 (Architectural Coating – sqft)

OffRoad Equipment

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	0	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.7348	28.8236	13.1736	0.0233		1.4896	1.4896		1.3704	1.3704		2,305.9407	2,305.9407	0.7296		2,324.1801
Total	2.7348	28.8236	13.1736	0.0233	12.0442	1.4896	13.5337	6.6205	1.3704	7.9908		2,305.9407	2,305.9407	0.7296		2,324.1801

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9000e-003	0.2994	0.0437	8.0000e-004	0.0704	1.1700e-003	0.0716	0.0178	1.1200e-003	0.0189		83.7973	83.7973	7.2900e-003		83.9797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0933	0.0783	0.6546	1.3500e-003	0.1479	1.0100e-003	0.1489	0.0392	9.3000e-004	0.0402		134.0267	134.0267	5.6700e-003		134.1686
Total	0.1022	0.3777	0.6982	2.1500e-003	0.2183	2.1800e-003	0.2205	0.0570	2.0500e-003	0.0591		217.8240	217.8240	0.0130		218.1483

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	2.7348	28.8236	13.1736	0.0233		1.4896	1.4896		1.3704	1.3704	0.0000	2,305.9407	2,305.9407	0.7296		2,324.1801
Total	2.7348	28.8236	13.1736	0.0233	5.4199	1.4896	6.9094	2.9792	1.3704	4.3496	0.0000	2,305.9407	2,305.9407	0.7296		2,324.1801

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9000e-003	0.2994	0.0437	8.0000e-004	0.0704	1.1700e-003	0.0716	0.0178	1.1200e-003	0.0189		83.7973	83.7973	7.2900e-003		83.9797
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0933	0.0783	0.6546	1.3500e-003	0.1479	1.0100e-003	0.1489	0.0392	9.3000e-004	0.0402		134.0267	134.0267	5.6700e-003		134.1686
Total	0.1022	0.3777	0.6982	2.1500e-003	0.2183	2.1800e-003	0.2205	0.0570	2.0500e-003	0.0591		217.8240	217.8240	0.0130		218.1483

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.5780	26.8748	12.8226	0.0233		1.3762	1.3762		1.2661	1.2661		2,256.2220	2,256.2220	0.7297		2,274.4647
Total	2.5780	26.8748	12.8226	0.0233	12.0442	1.3762	13.4204	6.6205	1.2661	7.8866		2,256.2220	2,256.2220	0.7297		2,274.4647

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2400e-003	0.2798	0.0414	7.9000e-004	0.0208	9.6000e-004	0.0218	5.6200e-003	9.2000e-004	6.5500e-003		82.8023	82.8023	7.0100e-003		82.9776
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0687	0.5767	1.3100e-003	0.1479	9.8000e-004	0.1489	0.0392	9.0000e-004	0.0401		129.8537	129.8537	4.8800e-003		129.9756
Total	0.0927	0.3485	0.6181	2.1000e-003	0.1687	1.9400e-003	0.1707	0.0448	1.8200e-003	0.0467		212.6560	212.6560	0.0119		212.9532

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4199	0.0000	5.4199	2.9792	0.0000	2.9792			0.0000			0.0000
Off-Road	2.5780	26.8748	12.8226	0.0233		1.3762	1.3762		1.2661	1.2661	0.0000	2,256.2220	2,256.2220	0.7297		2,274.4647
Total	2.5780	26.8748	12.8226	0.0233	5.4199	1.3762	6.7961	2.9792	1.2661	4.2453	0.0000	2,256.2220	2,256.2220	0.7297		2,274.4647

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2400e-003	0.2798	0.0414	7.9000e-004	0.0208	9.6000e-004	0.0218	5.6200e-003	9.2000e-004	6.5500e-003		82.8023	82.8023	7.0100e-003		82.9776
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0844	0.0687	0.5767	1.3100e-003	0.1479	9.8000e-004	0.1489	0.0392	9.0000e-004	0.0401		129.8537	129.8537	4.8800e-003		129.9756
Total	0.0927	0.3485	0.6181	2.1000e-003	0.1687	1.9400e-003	0.1707	0.0448	1.8200e-003	0.0467		212.6560	212.6560	0.0119		212.9532

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7114	0.0000	6.7114	3.3847	0.0000	3.3847			0.0000			0.0000
Off-Road	3.2122	36.0328	21.2319	0.0417		1.5987	1.5987		1.4708	1.4708		4,038.7317	4,038.7317	1.3062		4,071.3869
Total	3.2122	36.0328	21.2319	0.0417	6.7114	1.5987	8.3101	3.3847	1.4708	4.8554		4,038.7317	4,038.7317	1.3062		4,071.3869

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0938	0.0763	0.6408	1.4500e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		144.2819	144.2819	5.4200e-003		144.4174
Total	0.0938	0.0763	0.6408	1.4500e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		144.2819	144.2819	5.4200e-003		144.4174

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0201	0.0000	3.0201	1.5231	0.0000	1.5231			0.0000			0.0000
Off-Road	3.2122	36.0328	21.2319	0.0417		1.5987	1.5987		1.4708	1.4708	0.0000	4,038.7317	4,038.7317	1.3062		4,071.3869
Total	3.2122	36.0328	21.2319	0.0417	3.0201	1.5987	4.6188	1.5231	1.4708	2.9939	0.0000	4,038.7317	4,038.7317	1.3062		4,071.3869

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0938	0.0763	0.6408	1.4500e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		144.2819	144.2819	5.4200e-003		144.4174
Total	0.0938	0.0763	0.6408	1.4500e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		144.2819	144.2819	5.4200e-003		144.4174

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1017	2.8988	0.6467	6.7700e-003	0.1628	0.0150	0.1777	0.0469	0.0143	0.0612		707.4727	707.4727	0.0859		709.6191
Worker	0.2955	0.2403	2.0185	4.5700e-003	0.5175	3.4300e-003	0.5210	0.1373	3.1600e-003	0.1404		454.4881	454.4881	0.0171		454.9147
Total	0.3972	3.1392	2.6652	0.0113	0.6803	0.0184	0.6987	0.1841	0.0175	0.2016		1,161.9608	1,161.9608	0.1029		1,164.5338

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1017	2.8988	0.6467	6.7700e-003	0.1628	0.0150	0.1777	0.0469	0.0143	0.0612		707.4727	707.4727	0.0859		709.6191
Worker	0.2955	0.2403	2.0185	4.5700e-003	0.5175	3.4300e-003	0.5210	0.1373	3.1600e-003	0.1404		454.4881	454.4881	0.0171		454.9147
Total	0.3972	3.1392	2.6652	0.0113	0.6803	0.0184	0.6987	0.1841	0.0175	0.2016		1,161.9608	1,161.9608	0.1029		1,164.5338

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.6054	1,103.6054	0.3569		1,112.5286
Paving	0.3000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118		1,103.6054	1,103.6054	0.3569		1,112.5286

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0508	0.4323	1.0500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		104.9700	104.9700	3.6000e-003		105.0600
Total	0.0647	0.0508	0.4323	1.0500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		104.9700	104.9700	3.6000e-003		105.0600

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.6054	1,103.6054	0.3569		1,112.5286
Paving	0.3000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9278	6.4596	7.3266	0.0114		0.3389	0.3389		0.3118	0.3118	0.0000	1,103.6054	1,103.6054	0.3569		1,112.5286

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0508	0.4323	1.0500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		104.9700	104.9700	3.6000e-003		105.0600
Total	0.0647	0.0508	0.4323	1.0500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.3000e-004	0.0334		104.9700	104.9700	3.6000e-003		105.0600

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.1613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	36.3802	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0440	0.3746	9.1000e-004	0.1068	6.9000e-004	0.1075	0.0283	6.3000e-004	0.0290		90.9740	90.9740	3.1200e-003		91.0520
Total	0.0561	0.0440	0.3746	9.1000e-004	0.1068	6.9000e-004	0.1075	0.0283	6.3000e-004	0.0290		90.9740	90.9740	3.1200e-003		91.0520

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.1613					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	36.3802	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0561	0.0440	0.3746	9.1000e-004	0.1068	6.9000e-004	0.1075	0.0283	6.3000e-004	0.0290		90.9740	90.9740	3.1200e-003		91.0520
Total	0.0561	0.0440	0.3746	9.1000e-004	0.1068	6.9000e-004	0.1075	0.0283	6.3000e-004	0.0290		90.9740	90.9740	3.1200e-003		91.0520

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.493375	0.028385	0.147799	0.120572	0.020115	0.004575	0.012018	0.162105	0.001742	0.001833	0.005782	0.000964	0.000735
Other Asphalt Surfaces	0.493375	0.028385	0.147799	0.120572	0.020115	0.004575	0.012018	0.162105	0.001742	0.001833	0.005782	0.000964	0.000735
Parking Lot	0.493375	0.028385	0.147799	0.120572	0.020115	0.004575	0.012018	0.162105	0.001742	0.001833	0.005782	0.000964	0.000735

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0364	0.3305	0.2776	1.9800e-003		0.0251	0.0251		0.0251	0.0251		396.5802	396.5802	7.6000e-003	7.2700e-003	398.9369
NaturalGas Unmitigated	0.0364	0.3305	0.2776	1.9800e-003		0.0251	0.0251		0.0251	0.0251		396.5802	396.5802	7.6000e-003	7.2700e-003	398.9369

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	3370.93	0.0364	0.3305	0.2776	1.9800e-003		0.0251	0.0251		0.0251	0.0251		396.5802	396.5802	7.6000e-003	7.2700e-003	398.9369
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0364	0.3305	0.2776	1.9800e-003		0.0251	0.0251		0.0251	0.0251		396.5802	396.5802	7.6000e-003	7.2700e-003	398.9369

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	3.37093	0.0364	0.3305	0.2776	1.9800e-003		0.0251	0.0251		0.0251	0.0251		396.5802	396.5802	7.6000e-003	7.2700e-003	398.9369
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0364	0.3305	0.2776	1.9800e-003		0.0251	0.0251		0.0251	0.0251		396.5802	396.5802	7.6000e-003	7.2700e-003	398.9369

6.0 Area Detail

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2839	1.5000e-004	0.0165	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0352	0.0352	9.0000e-005		0.0376
Unmitigated	1.2839	1.5000e-004	0.0165	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0352	0.0352	9.0000e-005		0.0376

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0842					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5400e-003	1.5000e-004	0.0165	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0352	0.0352	9.0000e-005		0.0376
Total	1.2838	1.5000e-004	0.0165	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0352	0.0352	9.0000e-005		0.0376

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0842					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5400e-003	1.5000e-004	0.0165	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0352	0.0352	9.0000e-005		0.0376
Total	1.2838	1.5000e-004	0.0165	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0352	0.0352	9.0000e-005		0.0376

7.0 Water Detail

LEMOORE UNION ELEMENTARY SCHOOL DISTRICT NEW ELEMENTARY SCHOOL - Kings County, Winter

7.1 Mitigation Measures Water

Apply Water Conservation Strategy
Use Water Efficient Irrigation System

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation