

Final North CKD Area Closure Plan - Santa Cruz County, Winter

**Final North CKD Area Closure Plan
Santa Cruz County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	21.28	Acre	22.50	926,956.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	1.8	Precipitation Freq (Days)	61
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Adjusted lot acreage to 22.5 acres

Construction Phase - Revised to reflect anticipated phases

Off-road Equipment - Off-highway truck is proxy for water truck

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Trips and VMT - REvised to reflect onsite movement

On-road Fugitive Dust - Revised to reflect onsite hauling

Grading - From 12/19 project description information

Construction Off-road Equipment Mitigation -

Off-road Equipment - Off-highway truck is proxy for water truck

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	370.00	40.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	35.00	60.00
tblConstructionPhase	NumDays	35.00	60.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	PhaseEndDate	5/31/2022	11/24/2020
tblConstructionPhase	PhaseEndDate	6/16/2020	7/7/2020
tblConstructionPhase	PhaseEndDate	8/4/2020	9/29/2020

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tblConstructionPhase	PhaseEndDate	9/22/2020	2/16/2021
tblConstructionPhase	PhaseEndDate	11/10/2020	3/16/2021
tblConstructionPhase	PhaseEndDate	4/28/2020	6/9/2020
tblConstructionPhase	PhaseEndDate	12/29/2020	4/13/2021
tblConstructionPhase	PhaseStartDate	12/30/2020	9/30/2020
tblConstructionPhase	PhaseStartDate	4/29/2020	6/10/2020
tblConstructionPhase	PhaseStartDate	6/17/2020	7/8/2020
tblConstructionPhase	PhaseStartDate	8/5/2020	11/25/2020
tblConstructionPhase	PhaseStartDate	9/23/2020	2/17/2021
tblConstructionPhase	PhaseStartDate	11/11/2020	3/17/2021
tblGrading	AcresOfGrading	50.00	2.40
tblGrading	AcresOfGrading	150.00	17.25
tblGrading	AcresOfGrading	0.00	4.30
tblGrading	AcresOfGrading	50.00	0.48
tblGrading	AcresOfGrading	0.00	22.50
tblGrading	AcresOfGrading	50.00	0.21
tblGrading	MaterialExported	0.00	8,500.00
tblGrading	MaterialExported	0.00	110,700.00
tblGrading	MaterialExported	0.00	4,600.00
tblGrading	MaterialExported	0.00	4,600.00
tblGrading	MaterialImported	0.00	300.00
tblGrading	MaterialImported	0.00	778.00
tblLandUse	LotAcreage	21.28	22.50
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors

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tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripNumber	575.00	614.00
tblTripsAndVMT	HaulingTripNumber	1,063.00	1,134.00

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tblTripsAndVMT	HaulingTripNumber	13,838.00	14,760.00
tblTripsAndVMT	HaulingTripNumber	38.00	40.00
tblTripsAndVMT	HaulingTripNumber	97.00	104.00
tblTripsAndVMT	HaulingTripNumber	455.00	614.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	152.00	2.00

2.0 Emissions Summary

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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	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Energy	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
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	0.4345	2.0000e-005	2.1800e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005	0.0000	4.9600e-003

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	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Energy	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
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	0.4345	2.0000e-005	2.1800e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005	0.0000	4.9600e-003

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	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	Site Preparation	Site Preparation	4/15/2020	6/9/2020	5	40	
2	Retention Pond	Grading	6/10/2020	7/7/2020	5	20	
3	Mass Grading CKD	Grading	7/8/2020	9/29/2020	5	60	
4	Drainage Improvements	Grading	11/25/2020	2/16/2021	5	60	
5	Seasonal Ponds	Grading	2/17/2021	3/16/2021	5	20	
6	North Pond GCL	Grading	3/17/2021	4/13/2021	5	20	
7	Shortcrete Wall	Building Construction	9/30/2020	11/24/2020	5	40	

Acres of Grading (Site Preparation Phase): 22.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 22.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
North Pond GCL	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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Retention Pond	Excavators	2	8.00	158	0.38
Retention Pond	Graders	1	8.00	187	0.41
North Pond GCL	Graders	1	8.00	187	0.41
North Pond GCL	Rubber Tired Dozers	1	8.00	247	0.40
Retention Pond	Rubber Tired Dozers	1	8.00	247	0.40
Retention Pond	Scrapers	2	8.00	367	0.48
Retention Pond	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Pond GCL	Scrapers	2	8.00	367	0.48
Mass Grading CKD	Excavators	2	8.00	158	0.38
Mass Grading CKD	Graders	1	8.00	187	0.41
North Pond GCL	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Off-Highway Trucks	1	4.00	402	0.38
Mass Grading CKD	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading CKD	Scrapers	2	8.00	367	0.48
Mass Grading CKD	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retention Pond	Plate Compactors	1	8.00	8	0.43
Drainage Improvements	Excavators	2	8.00	158	0.38
Drainage Improvements	Graders	0	8.00	187	0.41
Retention Pond	Off-Highway Trucks	1	4.00	402	0.38
Mass Grading CKD	Plate Compactors	1	8.00	8	0.43
Mass Grading CKD	Crushing/Proc. Equipment	1	8.00	85	0.78
Drainage Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Drainage Improvements	Scrapers	0	8.00	367	0.48
Drainage Improvements	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Mass Grading CKD	Off-Highway Trucks	1	4.00	402	0.38
Seasonal Ponds	Excavators	2	8.00	158	0.38
Seasonal Ponds	Graders	1	8.00	187	0.41

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Drainage Improvements	Rollers	1	8.00	80	0.38
Seasonal Ponds	Rubber Tired Dozers	1	8.00	247	0.40
Seasonal Ponds	Scrapers	2	8.00	367	0.48
Seasonal Ponds	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Shortcrete Wall	Cranes	1	7.00	231	0.29
Shortcrete Wall	Forklifts	3	8.00	89	0.20
Shortcrete Wall	Generator Sets	1	8.00	84	0.74
Drainage Improvements	Off-Highway Trucks	1	4.00	402	0.38
Shortcrete Wall	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Shortcrete Wall	Welders	1	8.00	46	0.45
Drainage Improvements	Welders	1	8.00	46	0.45
Drainage Improvements	Cranes	1	8.00	231	0.29
Drainage Improvements	Plate Compactors	1	8.00	8	0.43
Seasonal Ponds	Off-Highway Trucks	1	4.00	402	0.38
Shortcrete Wall	Off-Highway Trucks	1	4.00	402	0.38
North Pond GCL	Off-Highway Trucks	1	4.00	402	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	614.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Retention Pond	10	25.00	0.00	1,134.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Mass Grading CKD	11	28.00	0.00	14,760.00	16.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Drainage Improvements	10	25.00	2.00	40.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Seasonal Ponds	9	23.00	0.00	104.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Shortcrete Wall	10	389.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
North Pond GCL	9	23.00	0.00	614.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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					18.6728	0.0000	18.6728	9.9966	0.0000	9.9966			0.0000			0.0000
Off-Road	4.4080	45.5787	23.4187	0.0446		2.3126	2.3126		2.1276	2.1276		4,324.4126	4,324.4126	1.3986		4,359.3776
Total	4.4080	45.5787	23.4187	0.0446	18.6728	2.3126	20.9854	9.9966	2.1276	12.1242		4,324.4126	4,324.4126	1.3986		4,359.3776

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3.2 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	0.0333	1.5511	0.3410	1.4300e-003	11.2970	2.5400e-003	11.2996	1.1278	2.4300e-003	1.1302		152.7357	152.7357	0.0178		153.1799
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	0.1425	0.1339	1.1027	2.4900e-003	0.2555	2.0700e-003	0.2575	0.0678	1.9100e-003	0.0697		247.3800	247.3800	0.0103		247.6371
Total	0.1758	1.6850	1.4437	3.9200e-003	11.5525	4.6100e-003	11.5571	1.1955	4.3400e-003	1.1999		400.1157	400.1157	0.0281		400.8170

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					8.4028	0.0000	8.4028	4.4985	0.0000	4.4985			0.0000			0.0000
Off-Road	4.4080	45.5787	23.4187	0.0446		2.3126	2.3126		2.1276	2.1276	0.0000	4,324.4126	4,324.4126	1.3986		4,359.3776
Total	4.4080	45.5787	23.4187	0.0446	8.4028	2.3126	10.7154	4.4985	2.1276	6.6261	0.0000	4,324.4126	4,324.4126	1.3986		4,359.3776

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3.2 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	0.0333	1.5511	0.3410	1.4300e-003	4.8427	2.5400e-003	4.8452	0.4831	2.4300e-003	0.4855		152.7357	152.7357	0.0178		153.1799
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	0.1425	0.1339	1.1027	2.4900e-003	0.2555	2.0700e-003	0.2575	0.0678	1.9100e-003	0.0697		247.3800	247.3800	0.0103		247.6371
Total	0.1758	1.6850	1.4437	3.9200e-003	5.0981	4.6100e-003	5.1028	0.5508	4.3400e-003	0.5552		400.1157	400.1157	0.0281		400.8170

3.3 Retention Pond - 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					6.1864	0.0000	6.1864	3.3296	0.0000	3.3296			0.0000			0.0000
Off-Road	4.8218	53.6102	34.0738	0.0691		2.2989	2.2989		2.1157	2.1157		6,679.6557	6,679.6557	2.1528		6,733.4748
Total	4.8218	53.6102	34.0738	0.0691	6.1864	2.2989	8.4852	3.3296	2.1157	5.4453		6,679.6557	6,679.6557	2.1528		6,733.4748

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3.3 Retention Pond - 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	0.1231	5.7293	1.2596	5.3000e-003	41.7290	9.3800e-003	41.7384	4.1659	8.9700e-003	4.1748		564.1769	564.1769	0.0656		565.8175
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	0.1781	0.1674	1.3783	3.1100e-003	0.3193	2.5800e-003	0.3219	0.0847	2.3900e-003	0.0871		309.2250	309.2250	0.0129		309.5464
Total	0.3013	5.8967	2.6379	8.4100e-003	42.0484	0.0120	42.0603	4.2505	0.0114	4.2619		873.4019	873.4019	0.0785		875.3638

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					2.7839	0.0000	2.7839	1.4983	0.0000	1.4983			0.0000			0.0000
Off-Road	4.8218	53.6102	34.0738	0.0691		2.2989	2.2989		2.1157	2.1157	0.0000	6,679.6557	6,679.6557	2.1528		6,733.4748
Total	4.8218	53.6102	34.0738	0.0691	2.7839	2.2989	5.0827	1.4983	2.1157	3.6140	0.0000	6,679.6557	6,679.6557	2.1528		6,733.4748

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3.3 Retention Pond - 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	0.1231	5.7293	1.2596	5.3000e-003	17.8879	9.3800e-003	17.8973	1.7844	8.9700e-003	1.7934		564.1769	564.1769	0.0656		565.8175
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	0.1781	0.1674	1.3783	3.1100e-003	0.3193	2.5800e-003	0.3219	0.0847	2.3900e-003	0.0871		309.2250	309.2250	0.0129		309.5464
Total	0.3013	5.8967	2.6379	8.4100e-003	18.2073	0.0120	18.2192	1.8691	0.0114	1.8805		873.4019	873.4019	0.0785		875.3638

3.4 Mass Grading CKD - 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					6.4877	0.0000	6.4877	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	5.3749	57.4093	38.4261	0.0761		2.5397	2.5397		2.3566	2.3566		7,344.1858	7,344.1858	2.2019		7,399.2327
Total	5.3749	57.4093	38.4261	0.0761	6.4877	2.5397	9.0275	3.3675	2.3566	5.7241		7,344.1858	7,344.1858	2.2019		7,399.2327

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3.4 Mass Grading CKD - 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	0.5149	24.0750	5.2901	0.0208	90.5258	0.0367	90.5624	9.0379	0.0351	9.0730		2,207.7875	2,207.7875	0.2771		2,214.7155
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	0.1995	0.1875	1.5437	3.4800e-003	0.3577	2.8900e-003	0.3605	0.0948	2.6700e-003	0.0975		346.3320	346.3320	0.0144		346.6919
Total	0.7144	24.2624	6.8339	0.0242	90.8834	0.0396	90.9230	9.1328	0.0378	9.1705		2,554.1194	2,554.1194	0.2915		2,561.4074

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					2.9195	0.0000	2.9195	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	5.3749	57.4093	38.4261	0.0761		2.5397	2.5397		2.3566	2.3566	0.0000	7,344.1858	7,344.1858	2.2019		7,399.2327
Total	5.3749	57.4093	38.4261	0.0761	2.9195	2.5397	5.4592	1.5154	2.3566	3.8720	0.0000	7,344.1858	7,344.1858	2.2019		7,399.2327

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.4 Mass Grading CKD - 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	0.5149	24.0750	5.2901	0.0208	38.8070	0.0367	38.8437	3.8718	0.0351	3.9069		2,207.7875	2,207.7875	0.2771		2,214.7155
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	0.1995	0.1875	1.5437	3.4800e-003	0.3577	2.8900e-003	0.3605	0.0948	2.6700e-003	0.0975		346.3320	346.3320	0.0144		346.6919
Total	0.7144	24.2624	6.8339	0.0242	39.1647	0.0396	39.2042	3.9667	0.0378	4.0044		2,554.1194	2,554.1194	0.2915		2,561.4074

3.5 Drainage Improvements - 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					6.0985	0.0000	6.0985	3.3185	0.0000	3.3185			0.0000			0.0000
Off-Road	3.3637	32.8245	23.1179	0.0431		1.6217	1.6217		1.4997	1.4997		4,123.2406	4,123.2406	1.2895		4,155.4789
Total	3.3637	32.8245	23.1179	0.0431	6.0985	1.6217	7.7203	3.3185	1.4997	4.8182		4,123.2406	4,123.2406	1.2895		4,155.4789

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.5 Drainage Improvements - 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	5.5100e-003	0.2327	0.0518	5.4000e-004	4.3809	9.6000e-004	4.3819	0.4404	9.2000e-004	0.4414		57.3576	57.3576	2.3800e-003		57.4170
Vendor	8.6300e-003	0.2564	0.0762	4.9000e-004	1.9539	1.5300e-003	1.9555	0.1971	1.4700e-003	0.1986		52.1708	52.1708	2.3700e-003		52.2300
Worker	0.1781	0.1674	1.3783	3.1100e-003	0.3193	2.5800e-003	0.3219	0.0847	2.3900e-003	0.0871		309.2250	309.2250	0.0129		309.5464
Total	0.1923	0.6565	1.5063	4.1400e-003	6.6542	5.0700e-003	6.6592	0.7223	4.7800e-003	0.7270		418.7534	418.7534	0.0176		419.1934

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					2.7443	0.0000	2.7443	1.4933	0.0000	1.4933			0.0000			0.0000
Off-Road	3.3637	32.8245	23.1179	0.0431		1.6217	1.6217		1.4997	1.4997	0.0000	4,123.2406	4,123.2406	1.2895		4,155,4789
Total	3.3637	32.8245	23.1179	0.0431	2.7443	1.6217	4.3661	1.4933	1.4997	2.9931	0.0000	4,123.2406	4,123.2406	1.2895		4,155,4789

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.5 Drainage Improvements - 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	5.5100e-003	0.2327	0.0518	5.4000e-004	1.8892	9.6000e-004	1.8901	0.1916	9.2000e-004	0.1925		57.3576	57.3576	2.3800e-003		57.4170
Vendor	8.6300e-003	0.2564	0.0762	4.9000e-004	0.8439	1.5300e-003	0.8454	0.0863	1.4700e-003	0.0877		52.1708	52.1708	2.3700e-003		52.2300
Worker	0.1781	0.1674	1.3783	3.1100e-003	0.3193	2.5800e-003	0.3219	0.0847	2.3900e-003	0.0871		309.2250	309.2250	0.0129		309.5464
Total	0.1923	0.6565	1.5063	4.1400e-003	3.0524	5.0700e-003	3.0575	0.3625	4.7800e-003	0.3673		418.7534	418.7534	0.0176		419.1934

3.5 Drainage Improvements - 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					
Fugitive Dust					6.0985	0.0000	6.0985	3.3185	0.0000	3.3185			0.0000			0.0000
Off-Road	3.1274	30.2352	22.6966	0.0431		1.4598	1.4598		1.3497	1.3497		4,123.5826	4,123.5826	1.2860		4,155.7324
Total	3.1274	30.2352	22.6966	0.0431	6.0985	1.4598	7.5583	3.3185	1.3497	4.6682		4,123.5826	4,123.5826	1.2860		4,155.7324

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.5 Drainage Improvements - 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	5.1800e-003	0.2128	0.0490	5.3000e-004	3.5849	8.5000e-004	3.5857	0.3605	8.1000e-004	0.3614		56.6615	56.6615	2.3600e-003		56.7204
Vendor	6.9500e-003	0.2326	0.0672	4.9000e-004	1.9539	7.5000e-004	1.9547	0.1971	7.1000e-004	0.1979		51.7719	51.7719	2.2500e-003		51.8281
Worker	0.1661	0.1499	1.2569	3.0200e-003	0.3193	2.5200e-003	0.3218	0.0847	2.3200e-003	0.0870		300.9747	300.9747	0.0116		301.2642
Total	0.1783	0.5953	1.3731	4.0400e-003	5.8581	4.1200e-003	5.8622	0.6424	3.8400e-003	0.6462		409.4081	409.4081	0.0162		409.8127

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					2.7443	0.0000	2.7443	1.4933	0.0000	1.4933			0.0000			0.0000
Off-Road	3.1274	30.2352	22.6966	0.0431		1.4598	1.4598		1.3497	1.3497	0.0000	4,123.5825	4,123.5825	1.2860		4,155.7324
Total	3.1274	30.2352	22.6966	0.0431	2.7443	1.4598	4.2042	1.4933	1.3497	2.8431	0.0000	4,123.5825	4,123.5825	1.2860		4,155.7324

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.5 Drainage Improvements - 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	5.1800e-003	0.2128	0.0490	5.3000e-004	1.5462	8.5000e-004	1.5470	0.1569	8.1000e-004	0.1577		56.6615	56.6615	2.3600e-003		56.7204
Vendor	6.9500e-003	0.2326	0.0672	4.9000e-004	0.8439	7.5000e-004	0.8446	0.0863	7.1000e-004	0.0870		51.7719	51.7719	2.2500e-003		51.8281
Worker	0.1661	0.1499	1.2569	3.0200e-003	0.3193	2.5200e-003	0.3218	0.0847	2.3200e-003	0.0870		300.9747	300.9747	0.0116		301.2642
Total	0.1783	0.5953	1.3731	4.0400e-003	2.7094	4.1200e-003	2.7135	0.3278	3.8400e-003	0.3317		409.4081	409.4081	0.0162		409.8127

3.6 Seasonal Ponds - 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					
Fugitive Dust					6.0509	0.0000	6.0509	3.3135	0.0000	3.3135			0.0000			0.0000
Off-Road	4.4941	49.0315	32.6806	0.0686		2.0819	2.0819		1.9153	1.9153		6,646.3049	6,646.3049	2.1496		6,700.0437
Total	4.4941	49.0315	32.6806	0.0686	6.0509	2.0819	8.1328	3.3135	1.9153	5.2288		6,646.3049	6,646.3049	2.1496		6,700.0437

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.6 Seasonal Ponds - 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	0.0404	1.6600	0.3820	4.1300e-003	15.3886	6.6100e-003	15.3953	1.5502	6.3300e-003	1.5565		441.9597	441.9597	0.0184		442.4189
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	0.1528	0.1379	1.1564	2.7800e-003	0.2938	2.3200e-003	0.2961	0.0779	2.1400e-003	0.0801		276.8967	276.8967	0.0107		277.1631
Total	0.1932	1.7979	1.5383	6.9100e-003	15.6824	8.9300e-003	15.6914	1.6281	8.4700e-003	1.6366		718.8564	718.8564	0.0290		719.5820

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					2.7229	0.0000	2.7229	1.4911	0.0000	1.4911			0.0000			0.0000
Off-Road	4.4941	49.0315	32.6806	0.0686		2.0819	2.0819		1.9153	1.9153	0.0000	6,646.3049	6,646.3049	2.1496		6,700.0437
Total	4.4941	49.0315	32.6806	0.0686	2.7229	2.0819	4.8048	1.4911	1.9153	3.4064	0.0000	6,646.3049	6,646.3049	2.1496		6,700.0437

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.6 Seasonal Ponds - 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	0.0404	1.6600	0.3820	4.1300e-003	6.6427	6.6100e-003	6.6493	0.6766	6.3300e-003	0.6829		441.9597	441.9597	0.0184		442.4189
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	0.1528	0.1379	1.1564	2.7800e-003	0.2938	2.3200e-003	0.2961	0.0779	2.1400e-003	0.0801		276.8967	276.8967	0.0107		277.1631
Total	0.1932	1.7979	1.5383	6.9100e-003	6.9365	8.9300e-003	6.9454	0.7545	8.4700e-003	0.7630		718.8564	718.8564	0.0290		719.5820

3.7 North Pond GCL - 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					
Fugitive Dust					6.0332	0.0000	6.0332	3.3114	0.0000	3.3114			0.0000			0.0000
Off-Road	4.4941	49.0315	32.6806	0.0686		2.0819	2.0819		1.9153	1.9153		6,646.3049	6,646.3049	2.1496		6,700.0437
Total	4.4941	49.0315	32.6806	0.0686	6.0332	2.0819	8.1151	3.3114	1.9153	5.2268		6,646.3049	6,646.3049	2.1496		6,700.0437

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.7 North Pond GCL - 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	0.0625	3.0065	0.6377	2.8600e-003	22.5940	4.6400e-003	22.5987	2.2556	4.4400e-003	2.2600		304.9390	304.9390	0.0348		305.8088
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	0.1528	0.1379	1.1564	2.7800e-003	0.2938	2.3200e-003	0.2961	0.0779	2.1400e-003	0.0801		276.8967	276.8967	0.0107		277.1631
Total	0.2153	3.1444	1.7941	5.6400e-003	22.8878	6.9600e-003	22.8948	2.3335	6.5800e-003	2.3401		581.8357	581.8357	0.0454		582.9719

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					2.7150	0.0000	2.7150	1.4901	0.0000	1.4901			0.0000			0.0000
Off-Road	4.4941	49.0315	32.6806	0.0686		2.0819	2.0819		1.9153	1.9153	0.0000	6,646.3049	6,646.3049	2.1496		6,700.0437
Total	4.4941	49.0315	32.6806	0.0686	2.7150	2.0819	4.7968	1.4901	1.9153	3.4055	0.0000	6,646.3049	6,646.3049	2.1496		6,700.0437

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.7 North Pond GCL - 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	0.0625	3.0065	0.6377	2.8600e-003	9.6854	4.6400e-003	9.6900	0.9662	4.4400e-003	0.9706		304.9390	304.9390	0.0348		305.8088
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	0.1528	0.1379	1.1564	2.7800e-003	0.2938	2.3200e-003	0.2961	0.0779	2.1400e-003	0.0801		276.8967	276.8967	0.0107		277.1631
Total	0.2153	3.1444	1.7941	5.6400e-003	9.9791	6.9600e-003	9.9861	1.0441	6.5800e-003	1.0507		581.8357	581.8357	0.0454		582.9719

3.8 Shortcrete Wall - 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	2.4514	22.3474	18.7536	0.0335		1.2322	1.2322		1.1563	1.1563		3,192.3741	3,192.3741	0.8296		3,213.1146
Total	2.4514	22.3474	18.7536	0.0335		1.2322	1.2322		1.1563	1.1563		3,192.3741	3,192.3741	0.8296		3,213.1146

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.8 Shortcrete Wall - 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	8.6300e-003	0.2564	0.0762	4.9000e-004	1.9539	1.5300e-003	1.9555	0.1971	1.4700e-003	0.1986		52.1708	52.1708	2.3700e-003		52.2300
Worker	2.7718	2.6046	21.4469	0.0484	4.9687	0.0402	5.0089	1.3177	0.0371	1.3548		4,811.5404	4,811.5404	0.2000		4,816.5415
Total	2.7805	2.8609	21.5231	0.0489	6.9227	0.0417	6.9644	1.5148	0.0386	1.5534		4,863.7112	4,863.7112	0.2024		4,868.7715

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	2.4514	22.3474	18.7536	0.0335		1.2322	1.2322		1.1563	1.1563	0.0000	3,192.3740	3,192.3740	0.8296		3,213.1146
Total	2.4514	22.3474	18.7536	0.0335		1.2322	1.2322		1.1563	1.1563	0.0000	3,192.3740	3,192.3740	0.8296		3,213.1146

Final North CKD Area Closure Plan - Santa Cruz County, Winter

3.8 Shortcrete Wall - 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	8.6300e-003	0.2564	0.0762	4.9000e-004	0.8439	1.5300e-003	0.8454	0.0863	1.4700e-003	0.0877		52.1708	52.1708	2.3700e-003		52.2300
Worker	2.7718	2.6046	21.4469	0.0484	4.9687	0.0402	5.0089	1.3177	0.0371	1.3548		4,811.5404	4,811.5404	0.2000		4,816.5415
Total	2.7805	2.8609	21.5231	0.0489	5.8126	0.0417	5.8543	1.4039	0.0386	1.4425		4,863.7112	4,863.7112	0.2024		4,868.7715

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Final North CKD Area Closure Plan - Santa Cruz 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 Non-Asphalt Surfaces	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 Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145

5.0 Energy Detail

Historical Energy Use: N

Final North CKD Area Closure Plan - Santa Cruz County, Winter

5.1 Mitigation Measures Energy

	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas 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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Other Non-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
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

Final North CKD Area Closure Plan - Santa Cruz County, Winter

5.2 Energy by Land Use - Natural Gas

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					
Other Non-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
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

6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Unmitigated	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003

Final North CKD Area Closure Plan - Santa Cruz 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	0.1059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Total	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003

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	0.1059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Total	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003

7.0 Water Detail

Final North CKD Area Closure Plan - Santa Cruz County, Winter

7.1 Mitigation Measures Water**8.0 Waste Detail**

8.1 Mitigation Measures Waste**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

CEMEX – Cap Only - North Central Coast Air Basin, Winter

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	21.28	Acre	22.50	926,956.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	53
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Adjusted lot acreage to 22.5
- Construction Phase - Revised to reflect 12/19 project description
- Off-road Equipment - Off-highway truck is proxy for water truck. Added building construction fleet
- Off-road Equipment - Off-highway truck is proxy for water truck
- Grading - Revised per 12/19 project description
- Trips and VMT - Revised per 12/19 project description
- On-road Fugitive Dust - Revised per 12/19 project description
- Construction Off-road Equipment Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	370.00	20.00
tblConstructionPhase	NumDays	35.00	100.00
tblConstructionPhase	PhaseEndDate	11/2/2021	9/30/2020
tblConstructionPhase	PhaseEndDate	6/2/2020	9/1/2020
tblConstructionPhase	PhaseStartDate	6/3/2020	9/3/2020
tblGrading	AcresOfGrading	250.00	17.25
tblGrading	MaterialImported	0.00	47,400.00
tblLandUse	LotAcreage	21.28	22.50
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOnRoadDust	HaulingPercentPave	100.00	97.30
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblTripsAndVMT	HaulingTripLength	20.00	18.40
tblTripsAndVMT	HaulingTripNumber	5,925.00	6,321.00
tblTripsAndVMT	VendorTripNumber	152.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	389.00	25.00

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2.0 Emissions Summary

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					
2020	6.8104	83.0864	47.3339	0.1357	55.9587	2.9632	58.9219	8.5261	2.7514	11.2775	0.0000	13,508.22 20	13,508.22 20	2.6825	0.0000	13,575.28 49
Maximum	6.8104	83.0864	47.3339	0.1357	55.9587	2.9632	58.9219	8.5261	2.7514	11.2775	0.0000	13,508.22 20	13,508.22 20	2.6825	0.0000	13,575.28 49

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					
2020	6.8104	83.0864	47.3339	0.1357	33.7526	2.9632	36.7158	4.8132	2.7514	7.5646	0.0000	13,508.22 20	13,508.22 20	2.6825	0.0000	13,575.28 49
Maximum	6.8104	83.0864	47.3339	0.1357	33.7526	2.9632	36.7158	4.8132	2.7514	7.5646	0.0000	13,508.22 20	13,508.22 20	2.6825	0.0000	13,575.28 49

CEMEX – Cap Only - North Central Coast Air Basin, 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	39.68	0.00	37.69	43.55	0.00	32.92	0.00	0.00	0.00	0.00	0.00	0.00

CEMEX – Cap Only - North Central Coast Air Basin, 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	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Energy	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
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	0.4345	2.0000e-005	2.1800e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005	0.0000	4.9600e-003

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	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Energy	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
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	0.4345	2.0000e-005	2.1800e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005	0.0000	4.9600e-003

CEMEX – Cap Only - North Central Coast Air Basin, 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	Grading	Grading	4/15/2020	9/1/2020	5	100	
2	Building Construction	Building Construction	9/3/2020	9/30/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.25

Acres of Paving: 22.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

CEMEX – Cap Only - North Central Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	8.00	231	0.29
Grading	Forklifts	1	8.00	89	0.20
Building Construction	Cranes	1	7.00	231	0.29
Grading	Welders	1	8.00	46	0.45
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Grading	Generator Sets	1	8.00	84	0.74
Grading	Off-Highway Trucks	1	4.00	402	0.38
Building Construction	Off-Highway Trucks	1	4.00	402	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	10	25.00	2.00	0.00	12.30	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	13	33.00	2.00	6,321.00	12.30	7.30	18.40	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

CEMEX – Cap Only - North Central Coast Air Basin, Winter

3.2 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					6.2784	0.0000	6.2784	3.3411	0.0000	3.3411			0.0000			0.0000
Off-Road	6.1196	65.0848	42.6331	0.0850		2.8908	2.8908		2.6821	2.6821		8,182.7847	8,182.7847	2.4436		8,243.8753
Total	6.1196	65.0848	42.6331	0.0850	6.2784	2.8908	9.1691	3.3411	2.6821	6.0232		8,182.7847	8,182.7847	2.4436		8,243.8753

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	0.5072	17.5911	3.2792	0.0470	47.2104	0.0685	47.2789	4.8851	0.0655	4.9506		4,962.7541	4,962.7541	0.2228		4,968.3245
Vendor	9.3400e-003	0.2494	0.0691	5.6000e-004	2.1612	1.4300e-003	2.1627	0.2181	1.3700e-003	0.2194		59.1266	59.1266	3.4500e-003		59.2127
Worker	0.1743	0.1611	1.3525	3.0500e-003	0.3087	2.5400e-003	0.3112	0.0819	2.3400e-003	0.0842		303.5566	303.5566	0.0126		303.8724
Total	0.6908	18.0016	4.7008	0.0506	49.6803	0.0725	49.7527	5.1851	0.0692	5.2543		5,325.4373	5,325.4373	0.2389		5,331.4096

CEMEX – Cap Only - North Central Coast Air Basin, Winter

3.2 Grading - 2020

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					2.8253	0.0000	2.8253	1.5035	0.0000	1.5035			0.0000			0.0000
Off-Road	6.1196	65.0848	42.6331	0.0850		2.8908	2.8908		2.6821	2.6821	0.0000	8,182.784 7	8,182.784 7	2.4436		8,243.875 3
Total	6.1196	65.0848	42.6331	0.0850	2.8253	2.8908	5.7160	1.5035	2.6821	4.1856	0.0000	8,182.784 7	8,182.784 7	2.4436		8,243.875 3

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	0.5072	17.5911	3.2792	0.0470	29.2906	0.0685	29.3590	3.0931	0.0655	3.1586		4,962.754 1	4,962.754 1	0.2228		4,968.324 5
Vendor	9.3400e-003	0.2494	0.0691	5.6000e-004	1.3281	1.4300e-003	1.3295	0.1348	1.3700e-003	0.1361		59.1266	59.1266	3.4500e-003		59.2127
Worker	0.1743	0.1611	1.3525	3.0500e-003	0.3087	2.5400e-003	0.3112	0.0819	2.3400e-003	0.0842		303.5566	303.5566	0.0126		303.8724
Total	0.6908	18.0016	4.7008	0.0506	30.9273	0.0725	30.9998	3.3098	0.0692	3.3790		5,325.437 3	5,325.437 3	0.2389		5,331.409 6

CEMEX – Cap Only - North Central Coast Air Basin, Winter

3.3 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	2.4514	22.3474	18.7536	0.0335		1.2322	1.2322		1.1563	1.1563		3,192.374 1	3,192.374 1	0.8296		3,213.1146
Total	2.4514	22.3474	18.7536	0.0335		1.2322	1.2322		1.1563	1.1563		3,192.374 1	3,192.374 1	0.8296		3,213.114 6

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	9.3400e-003	0.2494	0.0691	5.6000e-004	2.1612	1.4300e-003	2.1627	0.2181	1.3700e-003	0.2194		59.1266	59.1266	3.4500e-003		59.2127
Worker	0.1320	0.1220	1.0246	2.3100e-003	0.2339	1.9200e-003	0.2358	0.0620	1.7700e-003	0.0638		229.9672	229.9672	9.5700e-003		230.2064
Total	0.1414	0.3714	1.0938	2.8700e-003	2.3951	3.3500e-003	2.3984	0.2801	3.1400e-003	0.2832		289.0937	289.0937	0.0130		289.4191

CEMEX – Cap Only - North Central Coast Air Basin, Winter

3.3 Building Construction - 2020

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	2.4514	22.3474	18.7536	0.0335		1.2322	1.2322		1.1563	1.1563	0.0000	3,192.3740	3,192.3740	0.8296		3,213.1146
Total	2.4514	22.3474	18.7536	0.0335		1.2322	1.2322		1.1563	1.1563	0.0000	3,192.3740	3,192.3740	0.8296		3,213.1146

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	9.3400e-003	0.2494	0.0691	5.6000e-004	1.3281	1.4300e-003	1.3295	0.1348	1.3700e-003	0.1361		59.1266	59.1266	3.4500e-003		59.2127
Worker	0.1320	0.1220	1.0246	2.3100e-003	0.2339	1.9200e-003	0.2358	0.0620	1.7700e-003	0.0638		229.9672	229.9672	9.5700e-003		230.2064
Total	0.1414	0.3714	1.0938	2.8700e-003	1.5619	3.3500e-003	1.5653	0.1968	3.1400e-003	0.1999		289.0937	289.0937	0.0130		289.4191

4.0 Operational Detail - Mobile

CEMEX – Cap Only - North Central Coast Air Basin, Winter

4.1 Mitigation Measures Mobile

	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 Non-Asphalt Surfaces	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 Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543525	0.028472	0.201539	0.126188	0.021864	0.005301	0.018669	0.039782	0.003072	0.002565	0.007028	0.001098	0.000897

CEMEX – Cap Only - North Central Coast Air Basin, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas 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

CEMEX – Cap Only - North Central Coast Air Basin, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas 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					
Other Non-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
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

Mitigated

	NaturalGas 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					
Other Non-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
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

6.0 Area Detail

6.1 Mitigation Measures Area

CEMEX – Cap Only - North Central Coast Air Basin, 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	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Unmitigated	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003

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	0.1059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Total	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003

CEMEX – Cap Only - North Central Coast Air Basin, Winter

6.2 Area by SubCategory

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	0.1059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003
Total	0.4345	2.0000e-005	2.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.6600e-003	4.6600e-003	1.0000e-005		4.9600e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

CEMEX – Cap Only - North Central Coast Air Basin, Winter

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

Final North CKD Area Closure Plan - Santa Cruz County, Annual

**Final North CKD Area Closure Plan
Santa Cruz County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	21.28	Acre	22.50	926,956.80	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	1.8	Precipitation Freq (Days)	61
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Adjusted lot acreage to 22.5 acres

Construction Phase - Revised to reflect anticipated phases

Off-road Equipment - Off-highway truck is proxy for water truck

Off-road Equipment - Off-highway truck is proxy for water truck

Off-road Equipment - Off-highway truck is proxy for water truck

Off-road Equipment - Off-highway truck is proxy for water truck

Off-road Equipment - Off-highway truck is proxy for water truck

Off-road Equipment - Off-highway truck is proxy for water truck

Trips and VMT - REvised to reflect onsite movement

On-road Fugitive Dust - Revised to reflect onsite hauling

Grading - From 12/19 project description information

Construction Off-road Equipment Mitigation -

Off-road Equipment - Off-highway truck is proxy for water truck

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	370.00	40.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	35.00	60.00
tblConstructionPhase	NumDays	35.00	60.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	35.00	20.00
tblConstructionPhase	PhaseEndDate	5/31/2022	11/24/2020
tblConstructionPhase	PhaseEndDate	6/16/2020	7/7/2020
tblConstructionPhase	PhaseEndDate	8/4/2020	9/29/2020

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tblConstructionPhase	PhaseEndDate	9/22/2020	2/16/2021
tblConstructionPhase	PhaseEndDate	11/10/2020	3/16/2021
tblConstructionPhase	PhaseEndDate	4/28/2020	6/9/2020
tblConstructionPhase	PhaseEndDate	12/29/2020	4/13/2021
tblConstructionPhase	PhaseStartDate	12/30/2020	9/30/2020
tblConstructionPhase	PhaseStartDate	4/29/2020	6/10/2020
tblConstructionPhase	PhaseStartDate	6/17/2020	7/8/2020
tblConstructionPhase	PhaseStartDate	8/5/2020	11/25/2020
tblConstructionPhase	PhaseStartDate	9/23/2020	2/17/2021
tblConstructionPhase	PhaseStartDate	11/11/2020	3/17/2021
tblGrading	AcresOfGrading	50.00	2.40
tblGrading	AcresOfGrading	150.00	17.25
tblGrading	AcresOfGrading	0.00	4.30
tblGrading	AcresOfGrading	50.00	0.48
tblGrading	AcresOfGrading	0.00	22.50
tblGrading	AcresOfGrading	50.00	0.21
tblGrading	MaterialExported	0.00	8,500.00
tblGrading	MaterialExported	0.00	110,700.00
tblGrading	MaterialExported	0.00	4,600.00
tblGrading	MaterialExported	0.00	4,600.00
tblGrading	MaterialImported	0.00	300.00
tblGrading	MaterialImported	0.00	778.00
tblLandUse	LotAcreage	21.28	22.50
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors

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tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	0.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	HaulingTripLength	20.00	0.50
tblTripsAndVMT	HaulingTripNumber	575.00	614.00
tblTripsAndVMT	HaulingTripNumber	1,063.00	1,134.00

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tblTripsAndVMT	HaulingTripNumber	13,838.00	14,760.00
tblTripsAndVMT	HaulingTripNumber	38.00	40.00
tblTripsAndVMT	HaulingTripNumber	97.00	104.00
tblTripsAndVMT	HaulingTripNumber	455.00	614.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	152.00	2.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-15-2020	7-14-2020	1.9060	1.9060
2	7-15-2020	10-14-2020	2.5978	2.5978
3	10-15-2020	1-14-2021	1.1058	1.1058
4	1-15-2021	4-14-2021	1.5266	1.5266
		Highest	2.5978	2.5978

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	tons/yr										MT/yr					
Area	0.0793	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004
Energy	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
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0793	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004

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2.2 Overall Operational

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	tons/yr										MT/yr					
Area	0.0793	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004
Energy	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
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0793	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004

	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/15/2020	6/9/2020	5	40	
2	Retention Pond	Grading	6/10/2020	7/7/2020	5	20	
3	Mass Grading CKD	Grading	7/8/2020	9/29/2020	5	60	
4	Drainage Improvements	Grading	11/25/2020	2/16/2021	5	60	
5	Seasonal Ponds	Grading	2/17/2021	3/16/2021	5	20	
6	North Pond GCL	Grading	3/17/2021	4/13/2021	5	20	
7	Shortcrete Wall	Building Construction	9/30/2020	11/24/2020	5	40	

Acres of Grading (Site Preparation Phase): 22.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 22.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
North Pond GCL	Excavators	2	8.00	158	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Retention Pond	Excavators	2	8.00	158	0.38
Retention Pond	Graders	1	8.00	187	0.41
North Pond GCL	Graders	1	8.00	187	0.41
North Pond GCL	Rubber Tired Dozers	1	8.00	247	0.40
Retention Pond	Rubber Tired Dozers	1	8.00	247	0.40
Retention Pond	Scrapers	2	8.00	367	0.48

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Retention Pond	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Pond GCL	Scrapers	2	8.00	367	0.48
Mass Grading CKD	Excavators	2	8.00	158	0.38
Mass Grading CKD	Graders	1	8.00	187	0.41
North Pond GCL	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Off-Highway Trucks	1	4.00	402	0.38
Mass Grading CKD	Rubber Tired Dozers	1	8.00	247	0.40
Mass Grading CKD	Scrapers	2	8.00	367	0.48
Mass Grading CKD	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retention Pond	Plate Compactors	1	8.00	8	0.43
Drainage Improvements	Excavators	2	8.00	158	0.38
Drainage Improvements	Graders	0	8.00	187	0.41
Retention Pond	Off-Highway Trucks	1	4.00	402	0.38
Mass Grading CKD	Plate Compactors	1	8.00	8	0.43
Mass Grading CKD	Crushing/Proc. Equipment	1	8.00	85	0.78
Drainage Improvements	Rubber Tired Dozers	1	8.00	247	0.40
Drainage Improvements	Scrapers	0	8.00	367	0.48
Drainage Improvements	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Mass Grading CKD	Off-Highway Trucks	1	4.00	402	0.38
Seasonal Ponds	Excavators	2	8.00	158	0.38
Seasonal Ponds	Graders	1	8.00	187	0.41
Drainage Improvements	Rollers	1	8.00	80	0.38
Seasonal Ponds	Rubber Tired Dozers	1	8.00	247	0.40
Seasonal Ponds	Scrapers	2	8.00	367	0.48
Seasonal Ponds	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Shortcrete Wall	Cranes	1	7.00	231	0.29
Shortcrete Wall	Forklifts	3	8.00	89	0.20

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Shortcrete Wall	Generator Sets	1	8.00	84	0.74
Drainage Improvements	Off-Highway Trucks	1	4.00	402	0.38
Shortcrete Wall	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Shortcrete Wall	Welders	1	8.00	46	0.45
Drainage Improvements	Welders	1	8.00	46	0.45
Drainage Improvements	Cranes	1	8.00	231	0.29
Drainage Improvements	Plate Compactors	1	8.00	8	0.43
Seasonal Ponds	Off-Highway Trucks	1	4.00	402	0.38
Shortcrete Wall	Off-Highway Trucks	1	4.00	402	0.38
North Pond GCL	Off-Highway Trucks	1	4.00	402	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	8	20.00	0.00	614.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Retention Pond	10	25.00	0.00	1,134.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT
Mass Grading CKD	11	28.00	0.00	14,760.00	16.80	6.60	0.25	LD_Mix	HDT_Mix	HHDT
Drainage Improvements	10	25.00	2.00	40.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Seasonal Ponds	9	23.00	0.00	104.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Shortcrete Wall	10	389.00	2.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
North Pond GCL	9	23.00	0.00	614.00	16.80	6.60	0.50	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 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	tons/yr										MT/yr					
Fugitive Dust					0.3735	0.0000	0.3735	0.1999	0.0000	0.1999	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0882	0.9116	0.4684	8.9000e-004		0.0463	0.0463		0.0426	0.0426	0.0000	78.4608	78.4608	0.0254	0.0000	79.0952
Total	0.0882	0.9116	0.4684	8.9000e-004	0.3735	0.0463	0.4197	0.1999	0.0426	0.2425	0.0000	78.4608	78.4608	0.0254	0.0000	79.0952

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	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0317	5.8800e-003	3.0000e-005	0.1882	4.0000e-005	0.1882	0.0188	4.0000e-005	0.0188	0.0000	2.9569	2.9569	3.0000e-004	0.0000	2.9645
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	2.5400e-003	2.4500e-003	0.0213	5.0000e-005	4.9200e-003	4.0000e-005	4.9600e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.4922	4.4922	1.9000e-004	0.0000	4.4968
Total	3.1700e-003	0.0342	0.0272	8.0000e-005	0.1931	8.0000e-005	0.1932	0.0201	8.0000e-005	0.0202	0.0000	7.4491	7.4491	4.9000e-004	0.0000	7.4613

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3.2 Site Preparation - 2020

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	tons/yr										MT/yr					
Fugitive Dust					0.1681	0.0000	0.1681	0.0900	0.0000	0.0900	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0882	0.9116	0.4684	8.9000e-004		0.0463	0.0463		0.0426	0.0426	0.0000	78.4607	78.4607	0.0254	0.0000	79.0951
Total	0.0882	0.9116	0.4684	8.9000e-004	0.1681	0.0463	0.2143	0.0900	0.0426	0.1325	0.0000	78.4607	78.4607	0.0254	0.0000	79.0951

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	tons/yr										MT/yr					
Hauling	6.3000e-004	0.0317	5.8800e-003	3.0000e-005	0.0807	4.0000e-005	0.0807	8.0500e-003	4.0000e-005	8.0900e-003	0.0000	2.9569	2.9569	3.0000e-004	0.0000	2.9645
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	2.5400e-003	2.4500e-003	0.0213	5.0000e-005	4.9200e-003	4.0000e-005	4.9600e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.4922	4.4922	1.9000e-004	0.0000	4.4968
Total	3.1700e-003	0.0342	0.0272	8.0000e-005	0.0856	8.0000e-005	0.0857	9.3600e-003	8.0000e-005	9.4400e-003	0.0000	7.4491	7.4491	4.9000e-004	0.0000	7.4613

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3.3 Retention Pond - 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	tons/yr										MT/yr					
Fugitive Dust					0.0619	0.0000	0.0619	0.0333	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0482	0.5361	0.3407	6.9000e-004		0.0230	0.0230		0.0212	0.0212	0.0000	60.5968	60.5968	0.0195	0.0000	61.0851
Total	0.0482	0.5361	0.3407	6.9000e-004	0.0619	0.0230	0.0849	0.0333	0.0212	0.0545	0.0000	60.5968	60.5968	0.0195	0.0000	61.0851

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	tons/yr										MT/yr					
Hauling	1.1500e-003	0.0585	0.0109	6.0000e-005	0.3476	8.0000e-005	0.3476	0.0347	8.0000e-005	0.0348	0.0000	5.4611	5.4611	5.6000e-004	0.0000	5.4751
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	1.5900e-003	1.5300e-003	0.0133	3.0000e-005	3.0800e-003	3.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.8076	2.8076	1.2000e-004	0.0000	2.8105
Total	2.7400e-003	0.0601	0.0242	9.0000e-005	0.3506	1.1000e-004	0.3507	0.0355	1.0000e-004	0.0356	0.0000	8.2688	8.2688	6.8000e-004	0.0000	8.2856

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3.3 Retention Pond - 2020

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	tons/yr										MT/yr					
Fugitive Dust					0.0278	0.0000	0.0278	0.0150	0.0000	0.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0482	0.5361	0.3407	6.9000e-004		0.0230	0.0230		0.0212	0.0212	0.0000	60.5967	60.5967	0.0195	0.0000	61.0850
Total	0.0482	0.5361	0.3407	6.9000e-004	0.0278	0.0230	0.0508	0.0150	0.0212	0.0361	0.0000	60.5967	60.5967	0.0195	0.0000	61.0850

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	tons/yr										MT/yr					
Hauling	1.1500e-003	0.0585	0.0109	6.0000e-005	0.1490	8.0000e-005	0.1491	0.0149	8.0000e-005	0.0149	0.0000	5.4611	5.4611	5.6000e-004	0.0000	5.4751
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	1.5900e-003	1.5300e-003	0.0133	3.0000e-005	3.0800e-003	3.0000e-005	3.1000e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.8076	2.8076	1.2000e-004	0.0000	2.8105
Total	2.7400e-003	0.0601	0.0242	9.0000e-005	0.1521	1.1000e-004	0.1522	0.0157	1.0000e-004	0.0158	0.0000	8.2688	8.2688	6.8000e-004	0.0000	8.2856

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3.4 Mass Grading CKD - 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	tons/yr										MT/yr					
Fugitive Dust					0.1946	0.0000	0.1946	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1613	1.7223	1.1528	2.2800e-003		0.0762	0.0762		0.0707	0.0707	0.0000	199.8760	199.8760	0.0599	0.0000	201.3741
Total	0.1613	1.7223	1.1528	2.2800e-003	0.1946	0.0762	0.2708	0.1010	0.0707	0.1717	0.0000	199.8760	199.8760	0.0599	0.0000	201.3741

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	tons/yr										MT/yr					
Hauling	0.0145	0.7388	0.1361	6.7000e-004	2.2620	9.5000e-004	2.2629	0.2259	9.0000e-004	0.2268	0.0000	64.5507	64.5507	7.0500e-003	0.0000	64.7270
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	5.3400e-003	5.1500e-003	0.0447	1.0000e-004	0.0103	9.0000e-005	0.0104	2.7500e-003	8.0000e-005	2.8300e-003	0.0000	9.4336	9.4336	3.9000e-004	0.0000	9.4434
Total	0.0198	0.7439	0.1807	7.7000e-004	2.2723	1.0400e-003	2.2734	0.2286	9.8000e-004	0.2296	0.0000	73.9843	73.9843	7.4400e-003	0.0000	74.1704

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3.4 Mass Grading CKD - 2020

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	tons/yr										MT/yr					
Fugitive Dust					0.0876	0.0000	0.0876	0.0455	0.0000	0.0455	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1613	1.7223	1.1528	2.2800e-003		0.0762	0.0762		0.0707	0.0707	0.0000	199.8758	199.8758	0.0599	0.0000	201.3739
Total	0.1613	1.7223	1.1528	2.2800e-003	0.0876	0.0762	0.1638	0.0455	0.0707	0.1162	0.0000	199.8758	199.8758	0.0599	0.0000	201.3739

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	tons/yr										MT/yr					
Hauling	0.0145	0.7388	0.1361	6.7000e-004	0.9697	9.5000e-004	0.9707	0.0968	9.0000e-004	0.0977	0.0000	64.5507	64.5507	7.0500e-003	0.0000	64.7270
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	5.3400e-003	5.1500e-003	0.0447	1.0000e-004	0.0103	9.0000e-005	0.0104	2.7500e-003	8.0000e-005	2.8300e-003	0.0000	9.4336	9.4336	3.9000e-004	0.0000	9.4434
Total	0.0198	0.7439	0.1807	7.7000e-004	0.9801	1.0400e-003	0.9811	0.0995	9.8000e-004	0.1005	0.0000	73.9843	73.9843	7.4400e-003	0.0000	74.1704

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3.5 Drainage Improvements - 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	tons/yr										MT/yr					
Fugitive Dust					0.0836	0.0000	0.0836	0.0449	0.0000	0.0449	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0454	0.4431	0.3121	5.8000e-004		0.0219	0.0219		0.0203	0.0203	0.0000	50.4973	50.4973	0.0158	0.0000	50.8921
Total	0.0454	0.4431	0.3121	5.8000e-004	0.0836	0.0219	0.1055	0.0449	0.0203	0.0652	0.0000	50.4973	50.4973	0.0158	0.0000	50.8921

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	tons/yr										MT/yr					
Hauling	7.0000e-005	3.1400e-003	6.8000e-004	1.0000e-005	0.0493	1.0000e-005	0.0493	4.9600e-003	1.0000e-005	4.9700e-003	0.0000	0.7079	0.7079	3.0000e-005	0.0000	0.7086
Vendor	1.1000e-004	3.4700e-003	9.6000e-004	1.0000e-005	0.0220	2.0000e-005	0.0220	2.2200e-003	2.0000e-005	2.2400e-003	0.0000	0.6475	0.6475	3.0000e-005	0.0000	0.6482
Worker	2.1400e-003	2.0700e-003	0.0180	4.0000e-005	4.1500e-003	3.0000e-005	4.1900e-003	1.1000e-003	3.0000e-005	1.1400e-003	0.0000	3.7903	3.7903	1.6000e-004	0.0000	3.7942
Total	2.3200e-003	8.6800e-003	0.0196	6.0000e-005	0.0754	6.0000e-005	0.0755	8.2800e-003	6.0000e-005	8.3500e-003	0.0000	5.1457	5.1457	2.2000e-004	0.0000	5.1510

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3.5 Drainage Improvements - 2020

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	tons/yr										MT/yr					
Fugitive Dust					0.0376	0.0000	0.0376	0.0202	0.0000	0.0202	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0454	0.4431	0.3121	5.8000e-004		0.0219	0.0219		0.0203	0.0203	0.0000	50.4972	50.4972	0.0158	0.0000	50.8921
Total	0.0454	0.4431	0.3121	5.8000e-004	0.0376	0.0219	0.0595	0.0202	0.0203	0.0405	0.0000	50.4972	50.4972	0.0158	0.0000	50.8921

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	tons/yr										MT/yr					
Hauling	7.0000e-005	3.1400e-003	6.8000e-004	1.0000e-005	0.0213	1.0000e-005	0.0213	2.1600e-003	1.0000e-005	2.1800e-003	0.0000	0.7079	0.7079	3.0000e-005	0.0000	0.7086
Vendor	1.1000e-004	3.4700e-003	9.6000e-004	1.0000e-005	9.5100e-003	2.0000e-005	9.5300e-003	9.8000e-004	2.0000e-005	1.0000e-003	0.0000	0.6475	0.6475	3.0000e-005	0.0000	0.6482
Worker	2.1400e-003	2.0700e-003	0.0180	4.0000e-005	4.1500e-003	3.0000e-005	4.1900e-003	1.1000e-003	3.0000e-005	1.1400e-003	0.0000	3.7903	3.7903	1.6000e-004	0.0000	3.7942
Total	2.3200e-003	8.6800e-003	0.0196	6.0000e-005	0.0349	6.0000e-005	0.0350	4.2400e-003	6.0000e-005	4.3200e-003	0.0000	5.1457	5.1457	2.2000e-004	0.0000	5.1510

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3.5 Drainage Improvements - 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	tons/yr										MT/yr					
Fugitive Dust					0.1017	0.0000	0.1017	0.0549	0.0000	0.0549	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0516	0.4989	0.3745	7.1000e-004		0.0241	0.0241		0.0223	0.0223	0.0000	61.7240	61.7240	0.0193	0.0000	62.2053
Total	0.0516	0.4989	0.3745	7.1000e-004	0.1017	0.0241	0.1258	0.0549	0.0223	0.0771	0.0000	61.7240	61.7240	0.0193	0.0000	62.2053

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	tons/yr										MT/yr					
Hauling	8.0000e-005	3.5100e-003	7.8000e-004	1.0000e-005	0.0493	1.0000e-005	0.0493	4.9600e-003	1.0000e-005	4.9800e-003	0.0000	0.8548	0.8548	3.0000e-005	0.0000	0.8557
Vendor	1.1000e-004	3.8500e-003	1.0300e-003	1.0000e-005	0.0269	1.0000e-005	0.0269	2.7200e-003	1.0000e-005	2.7300e-003	0.0000	0.7854	0.7854	3.0000e-005	0.0000	0.7863
Worker	2.4400e-003	2.2700e-003	0.0200	5.0000e-005	5.0800e-003	4.0000e-005	5.1200e-003	1.3500e-003	4.0000e-005	1.3900e-003	0.0000	4.5090	4.5090	1.7000e-004	0.0000	4.5133
Total	2.6300e-003	9.6300e-003	0.0218	7.0000e-005	0.0813	6.0000e-005	0.0813	9.0300e-003	6.0000e-005	9.1000e-003	0.0000	6.1493	6.1493	2.3000e-004	0.0000	6.1552

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3.5 Drainage Improvements - 2021

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	tons/yr										MT/yr					
Fugitive Dust					0.0458	0.0000	0.0458	0.0247	0.0000	0.0247	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0516	0.4989	0.3745	7.1000e-004		0.0241	0.0241		0.0223	0.0223	0.0000	61.7240	61.7240	0.0193	0.0000	62.2052
Total	0.0516	0.4989	0.3745	7.1000e-004	0.0458	0.0241	0.0698	0.0247	0.0223	0.0470	0.0000	61.7240	61.7240	0.0193	0.0000	62.2052

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	tons/yr										MT/yr					
Hauling	8.0000e-005	3.5100e-003	7.8000e-004	1.0000e-005	0.0213	1.0000e-005	0.0213	2.1700e-003	1.0000e-005	2.1800e-003	0.0000	0.8548	0.8548	3.0000e-005	0.0000	0.8557
Vendor	1.1000e-004	3.8500e-003	1.0300e-003	1.0000e-005	0.0116	1.0000e-005	0.0116	1.1900e-003	1.0000e-005	1.2000e-003	0.0000	0.7854	0.7854	3.0000e-005	0.0000	0.7863
Worker	2.4400e-003	2.2700e-003	0.0200	5.0000e-005	5.0800e-003	4.0000e-005	5.1200e-003	1.3500e-003	4.0000e-005	1.3900e-003	0.0000	4.5090	4.5090	1.7000e-004	0.0000	4.5133
Total	2.6300e-003	9.6300e-003	0.0218	7.0000e-005	0.0380	6.0000e-005	0.0381	4.7100e-003	6.0000e-005	4.7700e-003	0.0000	6.1493	6.1493	2.3000e-004	0.0000	6.1552

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3.6 Seasonal Ponds - 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	tons/yr										MT/yr					
Fugitive Dust					0.0605	0.0000	0.0605	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0449	0.4903	0.3268	6.9000e-004		0.0208	0.0208		0.0192	0.0192	0.0000	60.2943	60.2943	0.0195	0.0000	60.7818
Total	0.0449	0.4903	0.3268	6.9000e-004	0.0605	0.0208	0.0813	0.0331	0.0192	0.0523	0.0000	60.2943	60.2943	0.0195	0.0000	60.7818

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	tons/yr										MT/yr					
Hauling	4.0000e-004	0.0166	3.7000e-003	4.0000e-005	0.1283	7.0000e-005	0.1284	0.0129	6.0000e-005	0.0130	0.0000	4.0410	4.0410	1.6000e-004	0.0000	4.0451
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	1.3600e-003	1.2600e-003	0.0112	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5141	2.5141	1.0000e-004	0.0000	2.5165
Total	1.7600e-003	0.0178	0.0149	7.0000e-005	0.1311	9.0000e-005	0.1312	0.0137	8.0000e-005	0.0138	0.0000	6.5551	6.5551	2.6000e-004	0.0000	6.5616

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3.6 Seasonal Ponds - 2021

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	tons/yr										MT/yr					
Fugitive Dust					0.0272	0.0000	0.0272	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0449	0.4903	0.3268	6.9000e-004		0.0208	0.0208		0.0192	0.0192	0.0000	60.2942	60.2942	0.0195	0.0000	60.7817
Total	0.0449	0.4903	0.3268	6.9000e-004	0.0272	0.0208	0.0481	0.0149	0.0192	0.0341	0.0000	60.2942	60.2942	0.0195	0.0000	60.7817

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	tons/yr										MT/yr					
Hauling	4.0000e-004	0.0166	3.7000e-003	4.0000e-005	0.0554	7.0000e-005	0.0555	5.6700e-003	6.0000e-005	5.7300e-003	0.0000	4.0410	4.0410	1.6000e-004	0.0000	4.0451
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	1.3600e-003	1.2600e-003	0.0112	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5141	2.5141	1.0000e-004	0.0000	2.5165
Total	1.7600e-003	0.0178	0.0149	7.0000e-005	0.0583	9.0000e-005	0.0584	6.4200e-003	8.0000e-005	6.5000e-003	0.0000	6.5551	6.5551	2.6000e-004	0.0000	6.5616

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3.7 North Pond GCL - 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	tons/yr										MT/yr					
Fugitive Dust					0.0603	0.0000	0.0603	0.0331	0.0000	0.0331	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0449	0.4903	0.3268	6.9000e-004		0.0208	0.0208		0.0192	0.0192	0.0000	60.2943	60.2943	0.0195	0.0000	60.7818
Total	0.0449	0.4903	0.3268	6.9000e-004	0.0603	0.0208	0.0812	0.0331	0.0192	0.0523	0.0000	60.2943	60.2943	0.0195	0.0000	60.7818

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	tons/yr										MT/yr					
Hauling	5.9000e-004	0.0307	5.4900e-003	3.0000e-005	0.1882	4.0000e-005	0.1882	0.0188	4.0000e-005	0.0188	0.0000	2.9532	2.9532	3.0000e-004	0.0000	2.9606
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	1.3600e-003	1.2600e-003	0.0112	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5141	2.5141	1.0000e-004	0.0000	2.5165
Total	1.9500e-003	0.0320	0.0167	6.0000e-005	0.1910	6.0000e-005	0.1911	0.0195	6.0000e-005	0.0196	0.0000	5.4673	5.4673	4.0000e-004	0.0000	5.4771

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3.7 North Pond GCL - 2021

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	tons/yr										MT/yr					
Fugitive Dust					0.0272	0.0000	0.0272	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0449	0.4903	0.3268	6.9000e-004		0.0208	0.0208		0.0192	0.0192	0.0000	60.2942	60.2942	0.0195	0.0000	60.7817
Total	0.0449	0.4903	0.3268	6.9000e-004	0.0272	0.0208	0.0480	0.0149	0.0192	0.0341	0.0000	60.2942	60.2942	0.0195	0.0000	60.7817

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	tons/yr										MT/yr					
Hauling	5.9000e-004	0.0307	5.4900e-003	3.0000e-005	0.0807	4.0000e-005	0.0807	8.0500e-003	4.0000e-005	8.0900e-003	0.0000	2.9532	2.9532	3.0000e-004	0.0000	2.9606
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	1.3600e-003	1.2600e-003	0.0112	3.0000e-005	2.8300e-003	2.0000e-005	2.8500e-003	7.5000e-004	2.0000e-005	7.7000e-004	0.0000	2.5141	2.5141	1.0000e-004	0.0000	2.5165
Total	1.9500e-003	0.0320	0.0167	6.0000e-005	0.0835	6.0000e-005	0.0836	8.8000e-003	6.0000e-005	8.8600e-003	0.0000	5.4673	5.4673	4.0000e-004	0.0000	5.4771

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3.8 Shortcrete Wall - 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	tons/yr										MT/yr					
Off-Road	0.0490	0.4470	0.3751	6.7000e-004		0.0246	0.0246		0.0231	0.0231	0.0000	57.9215	57.9215	0.0151	0.0000	58.2978
Total	0.0490	0.4470	0.3751	6.7000e-004		0.0246	0.0246		0.0231	0.0231	0.0000	57.9215	57.9215	0.0151	0.0000	58.2978

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	tons/yr										MT/yr					
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	1.7000e-004	5.1400e-003	1.4300e-003	1.0000e-005	0.0326	3.0000e-005	0.0326	3.2900e-003	3.0000e-005	3.3200e-003	0.0000	0.9592	0.9592	4.0000e-005	0.0000	0.9603
Worker	0.0494	0.0477	0.4138	9.7000e-004	0.0958	8.0000e-004	0.0966	0.0255	7.4000e-004	0.0262	0.0000	87.3732	87.3732	3.6100e-003	0.0000	87.4635
Total	0.0496	0.0529	0.4153	9.8000e-004	0.1283	8.3000e-004	0.1292	0.0288	7.7000e-004	0.0295	0.0000	88.3324	88.3324	3.6500e-003	0.0000	88.4237

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3.8 Shortcrete Wall - 2020

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	tons/yr										MT/yr					
Off-Road	0.0490	0.4470	0.3751	6.7000e-004		0.0246	0.0246		0.0231	0.0231	0.0000	57.9214	57.9214	0.0151	0.0000	58.2977
Total	0.0490	0.4470	0.3751	6.7000e-004		0.0246	0.0246		0.0231	0.0231	0.0000	57.9214	57.9214	0.0151	0.0000	58.2977

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	tons/yr										MT/yr					
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	1.7000e-004	5.1400e-003	1.4300e-003	1.0000e-005	0.0141	3.0000e-005	0.0141	1.4500e-003	3.0000e-005	1.4800e-003	0.0000	0.9592	0.9592	4.0000e-005	0.0000	0.9603
Worker	0.0494	0.0477	0.4138	9.7000e-004	0.0958	8.0000e-004	0.0966	0.0255	7.4000e-004	0.0262	0.0000	87.3732	87.3732	3.6100e-003	0.0000	87.4635
Total	0.0496	0.0529	0.4153	9.8000e-004	0.1099	8.3000e-004	0.1107	0.0269	7.7000e-004	0.0277	0.0000	88.3324	88.3324	3.6500e-003	0.0000	88.4237

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	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	tons/yr										MT/yr					
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	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	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 Non-Asphalt Surfaces	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 Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.570244	0.029693	0.206821	0.121238	0.021805	0.005076	0.020849	0.012122	0.001236	0.002827	0.005938	0.001005	0.001145

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas 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
NaturalGas 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

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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	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	tons/yr										MT/yr					
Mitigated	0.0793	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004
Unmitigated	0.0793	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004

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	tons/yr										MT/yr					
Architectural Coating	0.0193					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0599					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004
Total	0.0793	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004

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6.2 Area by SubCategory

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	tons/yr										MT/yr					
Architectural Coating	0.0193					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0599					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004
Total	0.0793	0.0000	2.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3000e-004	5.3000e-004	0.0000	0.0000	5.6000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Final North CKD Area Closure Plan - Santa Cruz County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Final North CKD Area Closure Plan - Santa Cruz County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Final North CKD Area Closure Plan - Santa Cruz County, Annual

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	21.28	Acre	22.50	926,956.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.8	Precipitation Freq (Days)	53
Climate Zone	5			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Adjusted lot acreage to 22.5

Construction Phase - Revised to reflect 12/19 project description

Off-road Equipment - Off-highway truck is proxy for water truck. Added building construction fleet

Off-road Equipment - Off-highway truck is proxy for water truck

Grading - Revised per 12/19 project description

Trips and VMT - Revised per 12/19 project description

On-road Fugitive Dust - Revised per 12/19 project description

Construction Off-road Equipment Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	370.00	20.00
tblConstructionPhase	NumDays	35.00	100.00
tblConstructionPhase	PhaseEndDate	11/2/2021	9/30/2020
tblConstructionPhase	PhaseEndDate	6/2/2020	9/1/2020
tblConstructionPhase	PhaseStartDate	6/3/2020	9/3/2020
tblGrading	AcresOfGrading	250.00	17.25
tblGrading	MaterialImported	0.00	47,400.00
tblLandUse	LotAcreage	21.28	22.50
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOnRoadDust	HaulingPercentPave	100.00	97.30
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblTripsAndVMT	HaulingTripLength	20.00	18.40
tblTripsAndVMT	HaulingTripNumber	5,925.00	6,321.00
tblTripsAndVMT	VendorTripNumber	152.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	389.00	25.00

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2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2020	0.3649	4.3808	2.5520	7.1800e-003	2.4657	0.1605	2.6262	0.3933	0.1491	0.5424	0.0000	647.5241	647.5241	0.1288	0.0000	650.7440
Maximum	0.3649	4.3808	2.5520	7.1800e-003	2.4657	0.1605	2.6262	0.3933	0.1491	0.5424	0.0000	647.5241	647.5241	0.1288	0.0000	650.7440

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	tons/yr										MT/yr					
2020	0.3649	4.3808	2.5520	7.1800e-003	1.4844	0.1605	1.6449	0.2205	0.1491	0.3697	0.0000	647.5236	647.5236	0.1288	0.0000	650.7436
Maximum	0.3649	4.3808	2.5520	7.1800e-003	1.4844	0.1605	1.6449	0.2205	0.1491	0.3697	0.0000	647.5236	647.5236	0.1288	0.0000	650.7436

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	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	39.80	0.00	37.37	43.92	0.00	31.85	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-15-2020	7-14-2020	2.9095	2.9095
2	7-15-2020	9-30-2020	1.8194	1.8194
		Highest	2.9095	2.9095

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	tons/yr										MT/yr					
Area	0.0793	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004
Energy	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
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0793	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004

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2.2 Overall Operational

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	tons/yr										MT/yr					
Area	0.0793	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004
Energy	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
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0793	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004

	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	Grading	Grading	4/15/2020	9/1/2020	5	100	
2	Building Construction	Building Construction	9/3/2020	9/30/2020	5	20	

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 17.25

Acres of Paving: 22.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	8.00	231	0.29
Grading	Forklifts	1	8.00	89	0.20
Building Construction	Cranes	1	7.00	231	0.29
Grading	Welders	1	8.00	46	0.45
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Grading	Generator Sets	1	8.00	84	0.74
Grading	Off-Highway Trucks	1	4.00	402	0.38
Building Construction	Off-Highway Trucks	1	4.00	402	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	10	25.00	2.00	0.00	12.30	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	13	33.00	2.00	6,321.00	12.30	7.30	18.40	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	tons/yr										MT/yr					
Fugitive Dust					0.3139	0.0000	0.3139	0.1671	0.0000	0.1671	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3060	3.2542	2.1317	4.2500e-003		0.1445	0.1445		0.1341	0.1341	0.0000	371.1649	371.1649	0.1108	0.0000	373.9359
Total	0.3060	3.2542	2.1317	4.2500e-003	0.3139	0.1445	0.4585	0.1671	0.1341	0.3012	0.0000	371.1649	371.1649	0.1108	0.0000	373.9359

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3.2 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	tons/yr										MT/yr					
Hauling	0.0248	0.8796	0.1540	2.3800e-003	2.0236	3.3700e-003	2.0270	0.2104	3.2200e-003	0.2137	0.0000	228.1900	228.1900	9.6000e-003	0.0000	228.4300
Vendor	4.5000e-004	0.0125	3.1900e-003	3.0000e-005	0.0925	7.0000e-005	0.0925	9.3400e-003	7.0000e-005	9.4100e-003	0.0000	2.7320	2.7320	1.5000e-004	0.0000	2.7357
Worker	7.8800e-003	7.3300e-003	0.0651	1.5000e-004	0.0150	1.3000e-004	0.0151	3.9700e-003	1.2000e-004	4.0900e-003	0.0000	13.8340	13.8340	5.7000e-004	0.0000	13.8482
Total	0.0332	0.8994	0.2223	2.5600e-003	2.1310	3.5700e-003	2.1346	0.2238	3.4100e-003	0.2272	0.0000	244.7560	244.7560	0.0103	0.0000	245.0139

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	tons/yr										MT/yr					
Fugitive Dust					0.1413	0.0000	0.1413	0.0752	0.0000	0.0752	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3060	3.2542	2.1317	4.2500e-003		0.1445	0.1445		0.1341	0.1341	0.0000	371.1644	371.1644	0.1108	0.0000	373.9355
Total	0.3060	3.2542	2.1317	4.2500e-003	0.1413	0.1445	0.2858	0.0752	0.1341	0.2093	0.0000	371.1644	371.1644	0.1108	0.0000	373.9355

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3.2 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	tons/yr										MT/yr					
Hauling	0.0248	0.8796	0.1540	2.3800e-003	1.2577	3.3700e-003	1.2611	0.1339	3.2200e-003	0.1371	0.0000	228.1900	228.1900	9.6000e-003	0.0000	228.4300
Vendor	4.5000e-004	0.0125	3.1900e-003	3.0000e-005	0.0568	7.0000e-005	0.0569	5.7800e-003	7.0000e-005	5.8500e-003	0.0000	2.7320	2.7320	1.5000e-004	0.0000	2.7357
Worker	7.8800e-003	7.3300e-003	0.0651	1.5000e-004	0.0150	1.3000e-004	0.0151	3.9700e-003	1.2000e-004	4.0900e-003	0.0000	13.8340	13.8340	5.7000e-004	0.0000	13.8482
Total	0.0332	0.8994	0.2223	2.5600e-003	1.3295	3.5700e-003	1.3331	0.1436	3.4100e-003	0.1470	0.0000	244.7560	244.7560	0.0103	0.0000	245.0139

3.3 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	tons/yr										MT/yr					
Off-Road	0.0245	0.2235	0.1875	3.4000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	28.9607	28.9607	7.5300e-003	0.0000	29.1489
Total	0.0245	0.2235	0.1875	3.4000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	28.9607	28.9607	7.5300e-003	0.0000	29.1489

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3.3 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	tons/yr										MT/yr					
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	9.0000e-005	2.5000e-003	6.4000e-004	1.0000e-005	0.0185	1.0000e-005	0.0185	1.8700e-003	1.0000e-005	1.8800e-003	0.0000	0.5464	0.5464	3.0000e-005	0.0000	0.5471
Worker	1.1900e-003	1.1100e-003	9.8700e-003	2.0000e-005	2.2600e-003	2.0000e-005	2.2800e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0961	2.0961	9.0000e-005	0.0000	2.0982
Total	1.2800e-003	3.6100e-003	0.0105	3.0000e-005	0.0208	3.0000e-005	0.0208	2.4700e-003	3.0000e-005	2.5000e-003	0.0000	2.6425	2.6425	1.2000e-004	0.0000	2.6454

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	tons/yr										MT/yr					
Off-Road	0.0245	0.2235	0.1875	3.4000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	28.9607	28.9607	7.5300e-003	0.0000	29.1489
Total	0.0245	0.2235	0.1875	3.4000e-004		0.0123	0.0123		0.0116	0.0116	0.0000	28.9607	28.9607	7.5300e-003	0.0000	29.1489

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3.3 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	tons/yr										MT/yr					
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	9.0000e-005	2.5000e-003	6.4000e-004	1.0000e-005	0.0114	1.0000e-005	0.0114	1.1600e-003	1.0000e-005	1.1700e-003	0.0000	0.5464	0.5464	3.0000e-005	0.0000	0.5471
Worker	1.1900e-003	1.1100e-003	9.8700e-003	2.0000e-005	2.2600e-003	2.0000e-005	2.2800e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.0961	2.0961	9.0000e-005	0.0000	2.0982
Total	1.2800e-003	3.6100e-003	0.0105	3.0000e-005	0.0136	3.0000e-005	0.0137	1.7600e-003	3.0000e-005	1.7900e-003	0.0000	2.6425	2.6425	1.2000e-004	0.0000	2.6454

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	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	tons/yr										MT/yr					
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	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	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 Non-Asphalt Surfaces	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 Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.543525	0.028472	0.201539	0.126188	0.021864	0.005301	0.018669	0.039782	0.003072	0.002565	0.007028	0.001098	0.000897

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

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	tons/yr										MT/yr					
Other Non-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	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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	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	tons/yr										MT/yr					
Mitigated	0.0793	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004
Unmitigated	0.0793	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004

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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	tons/yr										MT/yr					
Architectural Coating	0.0193					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0599					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004
Total	0.0793	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004

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	tons/yr										MT/yr					
Architectural Coating	0.0193					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0599					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004
Total	0.0793	0.0000	2.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.8000e-004	3.8000e-004	0.0000	0.0000	4.1000e-004

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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
