



APPENDIX A:

Air Quality Worksheets



Summer (Proposed)

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

Signal Hill Target Retail Center & Self Storage (Proposed)
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	15.00	1000sqft	0.34	15,000.00	0
Fast Food Restaurant with Drive Thru	5.60	1000sqft	0.13	5,600.00	0
Medical Office Building	3.50	1000sqft	0.08	3,500.00	0
Refrigerated Warehouse-No Rail	177.35	1000sqft	4.07	177,345.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

Project Characteristics -

Land Use - Proposed Uses, Option 3

Construction Phase - Includes construction of shopping center, fast-food restaurant and medical dental office

Vehicle Trips - Based on worst-case assumption for Option 3

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 Minimum Measures

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	38.00
tblConstructionPhase	PhaseEndDate	5/10/2023	5/14/2023
tblConstructionPhase	PhaseStartDate	4/15/2023	3/22/2023
tblVehicleTrips	ST_TR	722.03	685.32
tblVehicleTrips	ST_TR	8.96	8.64
tblVehicleTrips	ST_TR	1.68	1.51
tblVehicleTrips	ST_TR	49.97	44.16
tblVehicleTrips	SU_TR	542.72	515.12
tblVehicleTrips	SU_TR	1.55	1.50
tblVehicleTrips	SU_TR	1.68	1.51
tblVehicleTrips	SU_TR	25.24	22.30
tblVehicleTrips	WD_TR	496.12	470.89
tblVehicleTrips	WD_TR	36.13	34.86
tblVehicleTrips	WD_TR	1.68	1.51
tblVehicleTrips	WD_TR	42.70	37.73

2.0 Emissions Summary

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

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					
2022	2.1210	18.8085	19.9606	0.0442	1.1389	0.8211	1.9601	0.3068	0.7725	1.0794	0.0000	4,331.7396	4,331.7396	0.6867	0.0000	4,348.9055
2023	50.3896	16.8293	19.5501	0.0436	1.1389	0.7087	1.8477	0.3068	0.6668	0.9736	0.0000	4,272.5554	4,272.5554	0.6737	0.0000	4,289.3966
Maximum	50.3896	18.8085	19.9606	0.0442	1.1389	0.8211	1.9601	0.3068	0.7725	1.0794	0.0000	4,331.7396	4,331.7396	0.6867	0.0000	4,348.9055

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					
2022	2.1210	18.8085	19.9606	0.0442	1.1389	0.8211	1.9601	0.3068	0.7725	1.0794	0.0000	4,331.7396	4,331.7396	0.6867	0.0000	4,348.9055
2023	50.3896	16.8293	19.5501	0.0436	1.1389	0.7087	1.8477	0.3068	0.6668	0.9736	0.0000	4,272.5554	4,272.5554	0.6737	0.0000	4,289.3966
Maximum	50.3896	18.8085	19.9606	0.0442	1.1389	0.8211	1.9601	0.3068	0.7725	1.0794	0.0000	4,331.7396	4,331.7396	0.6867	0.0000	4,348.9055

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

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	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Energy	0.0454	0.4126	0.3466	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.0705	495.0705	9.4900e-003	9.0800e-003	498.0125
Mobile	5.5611	23.8090	49.4550	0.1834	14.7482	0.1313	14.8795	3.9456	0.1219	4.0676		18,748.5329	18,748.5329	0.9073		18,771.2145
Total	10.1086	24.2217	49.8221	0.1859	14.7482	0.1627	14.9109	3.9456	0.1534	4.0990		19,243.6475	19,243.6475	0.9169	9.0800e-003	19,269.2740

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	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Energy	0.0454	0.4126	0.3466	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.0705	495.0705	9.4900e-003	9.0800e-003	498.0125
Mobile	5.5611	23.8090	49.4550	0.1834	14.7482	0.1313	14.8795	3.9456	0.1219	4.0676		18,748.5329	18,748.5329	0.9073		18,771.2145
Total	10.1086	24.2217	49.8221	0.1859	14.7482	0.1627	14.9109	3.9456	0.1534	4.0990		19,243.6475	19,243.6475	0.9169	9.0800e-003	19,269.2740

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

	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	Building Construction	Building Construction	5/4/2022	3/21/2023	5	230	
2	Paving	Paving	3/22/2023	4/14/2023	5	18	
3	Architectural Coating	Architectural Coating	3/22/2023	5/14/2023	5	38	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 302,168; Non-Residential Outdoor: 100,723; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Paving Equipment	2	6.00	132	0.36
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	9	83.00	33.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

3.2 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0861	2.9876	0.7059	8.3400e-003	0.2112	5.4900e-003	0.2167	0.0608	5.2500e-003	0.0661		891.1951	891.1951	0.0524		892.5040
Worker	0.3286	0.2053	2.8913	8.8900e-003	0.9277	6.6300e-003	0.9344	0.2460	6.1100e-003	0.2522		886.2109	886.2109	0.0223		886.7693
Total	0.4148	3.1929	3.5972	0.0172	1.1389	0.0121	1.1511	0.3068	0.0114	0.3182		1,777.4060	1,777.4060	0.0747		1,779.2733

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

3.2 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0861	2.9876	0.7059	8.3400e-003	0.2112	5.4900e-003	0.2167	0.0608	5.2500e-003	0.0661		891.1951	891.1951	0.0524		892.5040
Worker	0.3286	0.2053	2.8913	8.8900e-003	0.9277	6.6300e-003	0.9344	0.2460	6.1100e-003	0.2522		886.2109	886.2109	0.0223		886.7693
Total	0.4148	3.1929	3.5972	0.0172	1.1389	0.0121	1.1511	0.3068	0.0114	0.3182		1,777.4060	1,777.4060	0.0747		1,779.2733

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

3.2 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0642	2.2586	0.6360	8.0800e-003	0.2112	2.5400e-003	0.2137	0.0608	2.4300e-003	0.0632		864.1635	864.1635	0.0457		865.3048
Worker	0.3090	0.1857	2.6701	8.5600e-003	0.9277	6.4600e-003	0.9342	0.2460	5.9500e-003	0.2520		853.1820	853.1820	0.0202		853.6857
Total	0.3732	2.4444	3.3061	0.0166	1.1389	9.0000e-003	1.1480	0.3068	8.3800e-003	0.3152		1,717.3455	1,717.3455	0.0658		1,718.9905

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

3.2 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0642	2.2586	0.6360	8.0800e-003	0.2112	2.5400e-003	0.2137	0.0608	2.4300e-003	0.0632		864.1635	864.1635	0.0457		865.3048
Worker	0.3090	0.1857	2.6701	8.5600e-003	0.9277	6.4600e-003	0.9342	0.2460	5.9500e-003	0.2520		853.1820	853.1820	0.0202		853.6857
Total	0.3732	2.4444	3.3061	0.0166	1.1389	9.0000e-003	1.1480	0.3068	8.3800e-003	0.3152		1,717.3455	1,717.3455	0.0658		1,718.9905

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

3.3 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0745	0.0448	0.6434	2.0600e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607		205.5860	205.5860	4.8500e-003		205.7074
Total	0.0745	0.0448	0.6434	2.0600e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607		205.5860	205.5860	4.8500e-003		205.7074

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

3.3 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0745	0.0448	0.6434	2.0600e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607		205.5860	205.5860	4.8500e-003		205.7074
Total	0.0745	0.0448	0.6434	2.0600e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607		205.5860	205.5860	4.8500e-003		205.7074

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.1421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	49.3338	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0380	0.5469	1.7500e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		174.7481	174.7481	4.1300e-003		174.8513
Total	0.0633	0.0380	0.5469	1.7500e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		174.7481	174.7481	4.1300e-003		174.8513

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

3.4 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.1421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	49.3338	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0380	0.5469	1.7500e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		174.7481	174.7481	4.1300e-003		174.8513
Total	0.0633	0.0380	0.5469	1.7500e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		174.7481	174.7481	4.1300e-003		174.8513

4.0 Operational Detail - Mobile

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

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	5.5611	23.8090	49.4550	0.1834	14.7482	0.1313	14.8795	3.9456	0.1219	4.0676		18,748.53 29	18,748.53 29	0.9073		18,771.21 45
Unmitigated	5.5611	23.8090	49.4550	0.1834	14.7482	0.1313	14.8795	3.9456	0.1219	4.0676		18,748.53 29	18,748.53 29	0.9073		18,771.21 45

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	2,637.00	3,837.77	2884.69	2,992,909	2,992,909
Medical Office Building	122.00	30.26	5.23	239,187	239,187
Refrigerated Warehouse-No Rail	268.00	268.00	268.00	1,148,572	1,148,572
Regional Shopping Center	566.00	662.37	334.56	1,182,436	1,182,436
Total	3,593.00	4,798.39	3,492.49	5,563,103	5,563,103

4.3 Trip Type Information

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Medical Office Building	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Refrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Regional Shopping Center	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

	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	0.0454	0.4126	0.3466	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.0705	495.0705	9.4900e-003	9.0800e-003	498.0125
NaturalGas Unmitigated	0.0454	0.4126	0.3466	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.0705	495.0705	9.4900e-003	9.0800e-003	498.0125

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					
Fast Food Restaurant with Drive Thru	3540.43	0.0382	0.3471	0.2916	2.0800e-003		0.0264	0.0264		0.0264	0.0264		416.5209	416.5209	7.9800e-003	7.6400e-003	418.9961
Medical Office Building	99.8219	1.0800e-003	9.7900e-003	8.2200e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004		11.7438	11.7438	2.3000e-004	2.2000e-004	11.8135
Refrigerated Warehouse-No Rail	500.453	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003		58.8768	58.8768	1.1300e-003	1.0800e-003	59.2267
Regional Shopping Center	67.3973	7.3000e-004	6.6100e-003	5.5500e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9291	7.9291	1.5000e-004	1.5000e-004	7.9762
Total		0.0454	0.4126	0.3465	2.4700e-003		0.0314	0.0314		0.0314	0.0314		495.0706	495.0706	9.4900e-003	9.0900e-003	498.0125

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

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					
Fast Food Restaurant with Drive Thru	3.54043	0.0382	0.3471	0.2916	2.0800e-003		0.0264	0.0264		0.0264	0.0264		416.5209	416.5209	7.9800e-003	7.6400e-003	418.9961
Medical Office Building	0.0998219	1.0800e-003	9.7900e-003	8.2200e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004		11.7438	11.7438	2.3000e-004	2.2000e-004	11.8135
Refrigerated Warehouse-No Rail	0.500453	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003		58.8768	58.8768	1.1300e-003	1.0800e-003	59.2267
Regional Shopping Center	0.0673973	7.3000e-004	6.6100e-003	5.5500e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9291	7.9291	1.5000e-004	1.5000e-004	7.9762
Total		0.0454	0.4126	0.3465	2.4700e-003		0.0314	0.0314		0.0314	0.0314		495.0706	495.0706	9.4900e-003	9.0900e-003	498.0125

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

	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	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Unmitigated	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470

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	0.5116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-003	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Total	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

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	0.5116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-003	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Total	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Summer

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



Winter (Proposed)

Signal Hill Target Retail Center & Self Stroage (Proposed) - South Coast AQMD Air District, Winter

Signal Hill Target Retail Center & Self Stroage (Proposed)
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	15.00	1000sqft	0.34	15,000.00	0
Fast Food Restaurant with Drive Thru	5.60	1000sqft	0.13	5,600.00	0
Medical Office Building	3.50	1000sqft	0.08	3,500.00	0
Refrigerated Warehouse-No Rail	177.35	1000sqft	4.07	177,345.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

Project Characteristics -

Land Use - Proposed Uses, Option 3

Construction Phase - Includes construction of shopping center, fast-food restaurant and medical dental office

Vehicle Trips - Based on worst-case assumption for Option 3

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 Minimum Measures

Area Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	38.00
tblConstructionPhase	PhaseEndDate	5/10/2023	5/14/2023
tblConstructionPhase	PhaseStartDate	4/15/2023	3/22/2023
tblVehicleTrips	ST_TR	722.03	685.32
tblVehicleTrips	ST_TR	8.96	8.64
tblVehicleTrips	ST_TR	1.68	1.51
tblVehicleTrips	ST_TR	49.97	44.16
tblVehicleTrips	SU_TR	542.72	515.12
tblVehicleTrips	SU_TR	1.55	1.50
tblVehicleTrips	SU_TR	1.68	1.51
tblVehicleTrips	SU_TR	25.24	22.30
tblVehicleTrips	WD_TR	496.12	470.89
tblVehicleTrips	WD_TR	36.13	34.86
tblVehicleTrips	WD_TR	1.68	1.51
tblVehicleTrips	WD_TR	42.70	37.73

2.0 Emissions Summary

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.1569	18.8159	19.7473	0.0433	1.1389	0.8213	1.9603	0.3068	0.7727	1.0795	0.0000	4,248.3598	4,248.3598	0.6889	0.0000	4,265.5834
2023	50.4032	16.8322	19.3332	0.0428	1.1389	0.7089	1.8478	0.3068	0.6669	0.9738	0.0000	4,192.4794	4,192.4794	0.6752	0.0000	4,209.3604
Maximum	50.4032	18.8159	19.7473	0.0433	1.1389	0.8213	1.9603	0.3068	0.7727	1.0795	0.0000	4,248.3598	4,248.3598	0.6889	0.0000	4,265.5834

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					
2022	2.1569	18.8159	19.7473	0.0433	1.1389	0.8213	1.9603	0.3068	0.7727	1.0795	0.0000	4,248.3598	4,248.3598	0.6889	0.0000	4,265.5834
2023	50.4032	16.8322	19.3332	0.0428	1.1389	0.7089	1.8478	0.3068	0.6669	0.9738	0.0000	4,192.4794	4,192.4794	0.6752	0.0000	4,209.3604
Maximum	50.4032	18.8159	19.7473	0.0433	1.1389	0.8213	1.9603	0.3068	0.7727	1.0795	0.0000	4,248.3598	4,248.3598	0.6889	0.0000	4,265.5834

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, 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	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Energy	0.0454	0.4126	0.3466	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.0705	495.0705	9.4900e-003	9.0800e-003	498.0125
Mobile	5.2217	23.8642	48.1415	0.1731	14.7482	0.1325	14.8807	3.9456	0.1231	4.0687		17,697.53 14	17,697.53 14	0.9284		17,720.74 22
Total	9.7692	24.2770	48.5085	0.1756	14.7482	0.1639	14.9121	3.9456	0.1545	4.1001		18,192.64 60	18,192.64 60	0.9380	9.0800e-003	18,218.80 17

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	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Energy	0.0454	0.4126	0.3466	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.0705	495.0705	9.4900e-003	9.0800e-003	498.0125
Mobile	5.2217	23.8642	48.1415	0.1731	14.7482	0.1325	14.8807	3.9456	0.1231	4.0687		17,697.53 14	17,697.53 14	0.9284		17,720.74 22
Total	9.7692	24.2770	48.5085	0.1756	14.7482	0.1639	14.9121	3.9456	0.1545	4.1001		18,192.64 60	18,192.64 60	0.9380	9.0800e-003	18,218.80 17

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, 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	Building Construction	Building Construction	5/4/2022	3/21/2023	5	230	
2	Paving	Paving	3/22/2023	4/14/2023	5	18	
3	Architectural Coating	Architectural Coating	3/22/2023	5/14/2023	5	38	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 302,168; Non-Residential Outdoor: 100,723; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Paving Equipment	2	6.00	132	0.36
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	9	83.00	33.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

3.2 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0907	2.9757	0.7903	8.1000e-003	0.2112	5.6700e-003	0.2169	0.0608	5.4200e-003	0.0662		865.2409	865.2409	0.0562		866.6458
Worker	0.3600	0.2246	2.5935	8.3100e-003	0.9277	6.6300e-003	0.9344	0.2460	6.1100e-003	0.2522		828.7853	828.7853	0.0208		829.3054
Total	0.4507	3.2003	3.3839	0.0164	1.1389	0.0123	1.1513	0.3068	0.0115	0.3184		1,694.0263	1,694.0263	0.0770		1,695.9512

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

3.2 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0907	2.9757	0.7903	8.1000e-003	0.2112	5.6700e-003	0.2169	0.0608	5.4200e-003	0.0662		865.2409	865.2409	0.0562		866.6458
Worker	0.3600	0.2246	2.5935	8.3100e-003	0.9277	6.6300e-003	0.9344	0.2460	6.1100e-003	0.2522		828.7853	828.7853	0.0208		829.3054
Total	0.4507	3.2003	3.3839	0.0164	1.1389	0.0123	1.1513	0.3068	0.0115	0.3184		1,694.0263	1,694.0263	0.0770		1,695.9512

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

3.2 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0677	2.2442	0.6988	7.8500e-003	0.2112	2.6600e-003	0.2139	0.0608	2.5500e-003	0.0634		839.3935	839.3935	0.0487		840.6097
Worker	0.3395	0.2032	2.3904	8.0000e-003	0.9277	6.4600e-003	0.9342	0.2460	5.9500e-003	0.2520		797.8760	797.8760	0.0187		798.3446
Total	0.4072	2.4473	3.0892	0.0159	1.1389	9.1200e-003	1.1481	0.3068	8.5000e-003	0.3153		1,637.2695	1,637.2695	0.0674		1,638.9544

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

3.2 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0677	2.2442	0.6988	7.8500e-003	0.2112	2.6600e-003	0.2139	0.0608	2.5500e-003	0.0634		839.3935	839.3935	0.0487		840.6097
Worker	0.3395	0.2032	2.3904	8.0000e-003	0.9277	6.4600e-003	0.9342	0.2460	5.9500e-003	0.2520		797.8760	797.8760	0.0187		798.3446
Total	0.4072	2.4473	3.0892	0.0159	1.1389	9.1200e-003	1.1481	0.3068	8.5000e-003	0.3153		1,637.2695	1,637.2695	0.0674		1,638.9544

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

3.3 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0818	0.0490	0.5760	1.9300e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607		192.2593	192.2593	4.5200e-003		192.3722
Total	0.0818	0.0490	0.5760	1.9300e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607		192.2593	192.2593	4.5200e-003		192.3722

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

3.3 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0818	0.0490	0.5760	1.9300e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607		192.2593	192.2593	4.5200e-003		192.3722
Total	0.0818	0.0490	0.5760	1.9300e-003	0.2236	1.5600e-003	0.2251	0.0593	1.4300e-003	0.0607		192.2593	192.2593	4.5200e-003		192.3722

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.1421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	49.3338	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0695	0.0416	0.4896	1.6400e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		163.4204	163.4204	3.8400e-003		163.5164
Total	0.0695	0.0416	0.4896	1.6400e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		163.4204	163.4204	3.8400e-003		163.5164

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

3.4 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.1421					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	49.3338	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0695	0.0416	0.4896	1.6400e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		163.4204	163.4204	3.8400e-003		163.5164
Total	0.0695	0.0416	0.4896	1.6400e-003	0.1900	1.3200e-003	0.1913	0.0504	1.2200e-003	0.0516		163.4204	163.4204	3.8400e-003		163.5164

4.0 Operational Detail - Mobile

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, 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	5.2217	23.8642	48.1415	0.1731	14.7482	0.1325	14.8807	3.9456	0.1231	4.0687		17,697.53 14	17,697.53 14	0.9284		17,720.74 22
Unmitigated	5.2217	23.8642	48.1415	0.1731	14.7482	0.1325	14.8807	3.9456	0.1231	4.0687		17,697.53 14	17,697.53 14	0.9284		17,720.74 22

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	2,637.00	3,837.77	2884.69	2,992,909	2,992,909
Medical Office Building	122.00	30.26	5.23	239,187	239,187
Refrigerated Warehouse-No Rail	268.00	268.00	268.00	1,148,572	1,148,572
Regional Shopping Center	566.00	662.37	334.56	1,182,436	1,182,436
Total	3,593.00	4,798.39	3,492.49	5,563,103	5,563,103

4.3 Trip Type Information

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Refrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Medical Office Building	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Refrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Regional Shopping Center	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, 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					
NaturalGas Mitigated	0.0454	0.4126	0.3466	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.0705	495.0705	9.4900e-003	9.0800e-003	498.0125
NaturalGas Unmitigated	0.0454	0.4126	0.3466	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.0705	495.0705	9.4900e-003	9.0800e-003	498.0125

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					
Fast Food Restaurant with Drive Thru	3540.43	0.0382	0.3471	0.2916	2.0800e-003		0.0264	0.0264		0.0264	0.0264		416.5209	416.5209	7.9800e-003	7.6400e-003	418.9961
Medical Office Building	99.8219	1.0800e-003	9.7900e-003	8.2200e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004		11.7438	11.7438	2.3000e-004	2.2000e-004	11.8135
Refrigerated Warehouse-No Rail	500.453	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003		58.8768	58.8768	1.1300e-003	1.0800e-003	59.2267
Regional Shopping Center	67.3973	7.3000e-004	6.6100e-003	5.5500e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9291	7.9291	1.5000e-004	1.5000e-004	7.9762
Total		0.0454	0.4126	0.3465	2.4700e-003		0.0314	0.0314		0.0314	0.0314		495.0706	495.0706	9.4900e-003	9.0900e-003	498.0125

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

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					
Fast Food Restaurant with Drive Thru	3.54043	0.0382	0.3471	0.2916	2.0800e-003		0.0264	0.0264		0.0264	0.0264		416.5209	416.5209	7.9800e-003	7.6400e-003	418.9961
Medical Office Building	0.0998219	1.0800e-003	9.7900e-003	8.2200e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004		11.7438	11.7438	2.3000e-004	2.2000e-004	11.8135
Refrigerated Warehouse-No Rail	0.500453	5.4000e-003	0.0491	0.0412	2.9000e-004		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003		58.8768	58.8768	1.1300e-003	1.0800e-003	59.2267
Regional Shopping Center	0.0673973	7.3000e-004	6.6100e-003	5.5500e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		7.9291	7.9291	1.5000e-004	1.5000e-004	7.9762
Total		0.0454	0.4126	0.3465	2.4700e-003		0.0314	0.0314		0.0314	0.0314		495.0706	495.0706	9.4900e-003	9.0900e-003	498.0125

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, 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	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Unmitigated	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470

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	0.5116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-003	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Total	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, 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	0.5116					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.9886					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9000e-003	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470
Total	4.5021	1.9000e-004	0.0205	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0441	0.0441	1.2000e-004		0.0470

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Signal Hill Target Retail Center & Self Storage (Proposed) - South Coast AQMD Air District, Winter

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
