

# **Appendix A**

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## Air Quality Calculations

**Whittier Aquatics Facility**  
**South Coast Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Recreational Swimming Pool	18.50	1000sqft	2.30	18,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Land Use - Pool surface area is 18,500 square feet, lot is 100,000 square feet, pool building is 10,000 square feet  
 Construction Phase - Work Tasks per County Preliminary Project Schedule, adding short site paving and architectural coating tasks.  
 Off-road Equipment - Equipment estimated for building pad construction, including concrete trowel machine (surfacing equipment).  
 Off-road Equipment - Equipment estimated needed for asphalt demo and site grading  
 Off-road Equipment - Equipment estimated for constructing building footings/caissons.  
 Off-road Equipment - Pool construction equipment need assumptions after excavation, gunnite spraying, trenching for water piping, concrete work around pools, pool equipment (heater, pumps, etc.) installation.  
 Off-road Equipment - Equipment estimates for primary pool excavation work  
 Off-road Equipment - Equipment needed for parking area paving  
 Off-road Equipment - Equipment estimated for superstructure part of building construction  
 Trips and VMT - Updated with project specific estimates  
 Grading - Site specifics import/export values added for phase types in CalEEMod that can use import/export quantities.  
 Vehicle Trips - Revised to 10th edition of ITE to be consistent with traffic analysis.  
 Energy Use - Assumes 880 MWh total annual energy use from County records for similar pool facility divided by pool unit of 18.5 thousand sqft.

Construction Off-road Equipment Mitigation - Watering is assumed per SCAQMD Rule 403 compliance requirements, Tier 4 Interim required for off-road to reduce DPM emissions

Whittier Aquatics Facility - South Coast Air Basin, Summer

**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	2.2644	24.3494	12.5889	0.0291	1.1845	1.0938	2.2782	0.2039	1.0223	1.2262	0.0000	2,848.974 4	2,848.974 4	0.6395	0.0000	2,864.960 5
2021	3.0301	29.9567	23.3898	0.0592	1.2772	1.1735	2.2864	0.2266	1.1109	1.2924	0.0000	5,819.217 8	5,819.217 8	1.0369	0.0000	5,845.140 8
2022	6.1632	27.4790	25.4697	0.0589	1.7957	1.3833	2.7819	0.4541	1.3091	1.3891	0.0000	5,790.391 5	5,790.391 5	1.0449	0.0000	5,816.033 2
<b>Maximum</b>	<b>6.1632</b>	<b>29.9567</b>	<b>25.4697</b>	<b>0.0592</b>	<b>1.7957</b>	<b>1.3833</b>	<b>2.7819</b>	<b>0.4541</b>	<b>1.3091</b>	<b>1.3891</b>	<b>0.0000</b>	<b>5,819.217 8</b>	<b>5,819.217 8</b>	<b>1.0449</b>	<b>0.0000</b>	<b>5,845.140 8</b>

**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	0.5133	8.8664	14.9236	0.0291	0.5912	0.0435	0.6346	0.1141	0.0432	0.1573	0.0000	2,848.974 4	2,848.974 4	0.6395	0.0000	2,864.960 5
2021	0.9358	22.4232	26.7053	0.0592	0.6848	0.2102	0.8950	0.1829	0.2093	0.3921	0.0000	5,819.217 8	5,819.217 8	1.0369	0.0000	5,845.140 8
2022	5.0918	21.9641	27.9689	0.0589	1.7800	0.2110	1.9876	0.4517	0.2108	0.6585	0.0000	5,790.391 5	5,790.391 5	1.0449	0.0000	5,816.033 2
<b>Maximum</b>	<b>5.0918</b>	<b>22.4232</b>	<b>27.9689</b>	<b>0.0592</b>	<b>1.7800</b>	<b>0.2110</b>	<b>1.9876</b>	<b>0.4517</b>	<b>0.2108</b>	<b>0.6585</b>	<b>0.0000</b>	<b>5,819.217 8</b>	<b>5,819.217 8</b>	<b>1.0449</b>	<b>0.0000</b>	<b>5,845.140 8</b>

	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
<b>Percent Reduction</b>	<b>42.91</b>	<b>34.89</b>	<b>-13.26</b>	<b>0.00</b>	<b>28.22</b>	<b>87.27</b>	<b>52.13</b>	<b>15.37</b>	<b>86.54</b>	<b>69.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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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	0.2236	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-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	0.8024	3.7822	9.3127	0.0339	2.7580	0.0263	2.7843	0.7379	0.0245	0.7624		3,448.6298	3,448.6298	0.1657		3,452.7719
Stationary	0.7765	3.4561	13.8355	0.0847		1.0730	1.0730		1.0730	1.0730		16,941.4659	16,941.4659	0.3247		16,949.5837
<b>Total</b>	<b>1.8025</b>	<b>7.2383</b>	<b>23.1502</b>	<b>0.1186</b>	<b>2.7580</b>	<b>1.0993</b>	<b>3.8573</b>	<b>0.7379</b>	<b>1.0975</b>	<b>1.8354</b>		<b>20,390.0997</b>	<b>20,390.0997</b>	<b>0.4904</b>	<b>0.0000</b>	<b>20,402.3600</b>

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	lb/day										lb/day					
Area	0.2236	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-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	0.8024	3.7822	9.3127	0.0339	2.7580	0.0263	2.7843	0.7379	0.0245	0.7624		3,448.6298	3,448.6298	0.1657		3,452.7719
Stationary	0.7765	3.4561	13.8355	0.0847		1.0730	1.0730		1.0730	1.0730		16,941.4659	16,941.4659	0.3247		16,949.5837
<b>Total</b>	<b>1.8025</b>	<b>7.2383</b>	<b>23.1502</b>	<b>0.1186</b>	<b>2.7580</b>	<b>1.0993</b>	<b>3.8573</b>	<b>0.7379</b>	<b>1.0975</b>	<b>1.8354</b>		<b>20,390.0997</b>	<b>20,390.0997</b>	<b>0.4904</b>	<b>0.0000</b>	<b>20,402.3600</b>

	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
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition/Grading	Demolition	12/1/2020	1/14/2021	5	33	Asphalt Demo and Grading
2	Building Pad	Site Preparation	1/15/2021	3/2/2021	5	33	Pool Building Pad
3	Footings	Grading	2/15/2021	4/30/2021	5	55	Building footings/caissons
4	Superstructure	Building Construction	3/15/2021	6/14/2021	5	66	Pool building superstructure
5	Building Construction	Building Construction	5/17/2021	3/18/2022	5	220	Pool building constructions
6	Pool Excavation	Grading	11/15/2021	1/13/2022	5	44	Pools Excavations
7	Pool Construction	Building Construction	1/14/2022	7/1/2022	5	121	Pool/heaters/piping construction
8	Architectural Coating	Architectural Coating	3/21/2022	4/15/2022	5	20	Building Architectural Coating
9	Site paving	Paving	6/16/2022	6/29/2022	5	10	Parking lot paving

**Non-Residential Indoor: 15,000; Non-Residential Outdoor: 5,000**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition/Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition/Grading	Graders	1	8.00	187	0.41
Demolition/Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition/Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Pad	Generator Sets	1	7.00	84	0.74
Building Pad	Surfacing Equipment	1	7.00	50	0.30
Building Pad	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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Footings	Excavators	1	8.00	158	0.38
Footings	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Superstructure	Cranes	1	8.00	231	0.29
Superstructure	Forklifts	1	7.00	89	0.20
Superstructure	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Pool Excavation	Excavators	1	8.00	158	0.38
Pool Excavation	Rubber Tired Loaders	1	8.00	203	0.36
Pool Excavation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Pool Construction	Cranes	1	8.00	231	0.29
Pool Construction	Forklifts	1	7.00	89	0.20
Pool Construction	Pumps	1	6.00	84	0.74
Pool Construction	Surfacing Equipment	1	4.00	50	0.30
Pool Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pool Construction	Trenchers	1	8.00	78	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site paving	Graders	1	6.00	187	0.41
Site paving	Pavers	1	8.00	130	0.42
Site paving	Rollers	2	8.00	80	0.38
Site paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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**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
Demolition/Grading	4	10.00	2.00	124.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Pad	3	8.00	2.00	50.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Footings	2	5.00	1.00	8.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Superstructure	3	8.00	1.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	8.00	2.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pool Excavation	3	8.00	1.00	1,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pool Construction	6	8.00	1.00	24.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site paving	5	15.00	0.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.2 Demolition/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					0.9727	0.0000	0.9727	0.1473	0.0000	0.1473			0.0000			0.0000
Off-Road	2.1830	23.0616	11.9123	0.0245		1.0885	1.0885		1.0172	1.0172		2,363.4943	2,363.4943	0.6103		2,378.7510
<b>Total</b>	<b>2.1830</b>	<b>23.0616</b>	<b>11.9123</b>	<b>0.0245</b>	<b>0.9727</b>	<b>1.0885</b>	<b>2.0612</b>	<b>0.1473</b>	<b>1.0172</b>	<b>1.1645</b>		<b>2,363.4943</b>	<b>2,363.4943</b>	<b>0.6103</b>		<b>2,378.7510</b>

**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	0.0299	1.0469	0.2177	2.9200e-003	0.0872	3.3900e-003	0.0906	0.0233	3.2400e-003	0.0265		316.5381	316.5381	0.0224		317.0979
Vendor	6.6400e-003	0.2106	0.0512	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6800e-003	1.0000e-003	4.6800e-003		54.5583	54.5583	3.4900e-003		54.6456
Worker	0.0449	0.0303	0.4076	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		114.3836	114.3836	3.3000e-003		114.4660
<b>Total</b>	<b>0.0814</b>	<b>1.2879</b>	<b>0.6765</b>	<b>4.5800e-003</b>	<b>0.2118</b>	<b>5.2800e-003</b>	<b>0.2171</b>	<b>0.0566</b>	<b>5.0300e-003</b>	<b>0.0616</b>		<b>485.4800</b>	<b>485.4800</b>	<b>0.0292</b>		<b>486.2095</b>



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**3.2 Demolition/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					0.3794	0.0000	0.3794	0.0574	0.0000	0.0574			0.0000			0.0000
Off-Road	0.4319	7.5786	14.2471	0.0245		0.0382	0.0382		0.0382	0.0382	0.0000	2,363.4943	2,363.4943	0.6103		2,378.7510
<b>Total</b>	<b>0.4319</b>	<b>7.5786</b>	<b>14.2471</b>	<b>0.0245</b>	<b>0.3794</b>	<b>0.0382</b>	<b>0.4175</b>	<b>0.0574</b>	<b>0.0382</b>	<b>0.0956</b>	<b>0.0000</b>	<b>2,363.4943</b>	<b>2,363.4943</b>	<b>0.6103</b>		<b>2,378.7510</b>

**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	0.0299	1.0469	0.2177	2.9200e-003	0.0872	3.3900e-003	0.0906	0.0233	3.2400e-003	0.0265		316.5381	316.5381	0.0224		317.0979
Vendor	6.6400e-003	0.2106	0.0512	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6800e-003	1.0000e-003	4.6800e-003		54.5583	54.5583	3.4900e-003		54.6456
Worker	0.0449	0.0303	0.4076	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		114.3836	114.3836	3.3000e-003		114.4660
<b>Total</b>	<b>0.0814</b>	<b>1.2879</b>	<b>0.6765</b>	<b>4.5800e-003</b>	<b>0.2118</b>	<b>5.2800e-003</b>	<b>0.2171</b>	<b>0.0566</b>	<b>5.0300e-003</b>	<b>0.0616</b>		<b>485.4800</b>	<b>485.4800</b>	<b>0.0292</b>		<b>486.2095</b>

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**3.2 Demolition/Grading - 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					0.9727	0.0000	0.9727	0.1473	0.0000	0.1473			0.0000			0.0000
Off-Road	2.0714	21.8296	11.7393	0.0245		1.0050	1.0050		0.9385	0.9385		2,362.6010	2,362.6010	0.6069		2,377.7722
<b>Total</b>	<b>2.0714</b>	<b>21.8296</b>	<b>11.7393</b>	<b>0.0245</b>	<b>0.9727</b>	<b>1.0050</b>	<b>1.9777</b>	<b>0.1473</b>	<b>0.9385</b>	<b>1.0858</b>		<b>2,362.6010</b>	<b>2,362.6010</b>	<b>0.6069</b>		<b>2,377.7722</b>

**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	0.0286	0.9743	0.2152	2.8800e-003	0.1799	3.0400e-003	0.1829	0.0460	2.9100e-003	0.0489		313.1051	313.1051	0.0221		313.6568
Vendor	5.6300e-003	0.1915	0.0465	5.1000e-004	0.0128	3.9000e-004	0.0132	3.6800e-003	3.7000e-004	4.0600e-003		54.1488	54.1488	3.3500e-003		54.2325
Worker	0.0419	0.0273	0.3755	1.1100e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.6898	110.6898	2.9800e-003		110.7644
<b>Total</b>	<b>0.0760</b>	<b>1.1931</b>	<b>0.6372</b>	<b>4.5000e-003</b>	<b>0.3045</b>	<b>4.2600e-003</b>	<b>0.3087</b>	<b>0.0794</b>	<b>4.0400e-003</b>	<b>0.0834</b>		<b>477.9437</b>	<b>477.9437</b>	<b>0.0284</b>		<b>478.6536</b>

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**3.2 Demolition/Grading - 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	lb/day										lb/day					
Fugitive Dust					0.3794	0.0000	0.3794	0.0574	0.0000	0.0574			0.0000			0.0000
Off-Road	0.4319	7.5786	14.2471	0.0245		0.0382	0.0382		0.0382	0.0382	0.0000	2,362.6010	2,362.6010	0.6069		2,377.7722
<b>Total</b>	<b>0.4319</b>	<b>7.5786</b>	<b>14.2471</b>	<b>0.0245</b>	<b>0.3794</b>	<b>0.0382</b>	<b>0.4175</b>	<b>0.0574</b>	<b>0.0382</b>	<b>0.0956</b>	<b>0.0000</b>	<b>2,362.6010</b>	<b>2,362.6010</b>	<b>0.6069</b>		<b>2,377.7722</b>

**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	0.0286	0.9743	0.2152	2.8800e-003	0.1799	3.0400e-003	0.1829	0.0460	2.9100e-003	0.0489		313.1051	313.1051	0.0221		313.6568
Vendor	5.6300e-003	0.1915	0.0465	5.1000e-004	0.0128	3.9000e-004	0.0132	3.6800e-003	3.7000e-004	4.0600e-003		54.1488	54.1488	3.3500e-003		54.2325
Worker	0.0419	0.0273	0.3755	1.1100e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		110.6898	110.6898	2.9800e-003		110.7644
<b>Total</b>	<b>0.0760</b>	<b>1.1931</b>	<b>0.6372</b>	<b>4.5000e-003</b>	<b>0.3045</b>	<b>4.2600e-003</b>	<b>0.3087</b>	<b>0.0794</b>	<b>4.0400e-003</b>	<b>0.0834</b>		<b>477.9437</b>	<b>477.9437</b>	<b>0.0284</b>		<b>478.6536</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.3 Building Pad - 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					0.0176	0.0000	0.0176	1.9700e-003	0.0000	1.9700e-003			0.0000			0.0000
Off-Road	0.5939	5.3989	6.1121	9.7500e-003		0.2918	0.2918		0.2802	0.2802		932.4690	932.4690	0.1531		936.2961
<b>Total</b>	<b>0.5939</b>	<b>5.3989</b>	<b>6.1121</b>	<b>9.7500e-003</b>	<b>0.0176</b>	<b>0.2918</b>	<b>0.3094</b>	<b>1.9700e-003</b>	<b>0.2802</b>	<b>0.2822</b>		<b>932.4690</b>	<b>932.4690</b>	<b>0.1531</b>		<b>936.2961</b>

**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	0.0115	0.3929	0.0868	1.1600e-003	0.0265	1.2200e-003	0.0277	7.2500e-003	1.1700e-003	8.4200e-003		126.2521	126.2521	8.9000e-003		126.4745
Vendor	5.6300e-003	0.1915	0.0465	5.1000e-004	0.0128	3.9000e-004	0.0132	3.6800e-003	3.7000e-004	4.0600e-003		54.1488	54.1488	3.3500e-003		54.2325
Worker	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
<b>Total</b>	<b>0.0506</b>	<b>0.6062</b>	<b>0.4337</b>	<b>2.5600e-003</b>	<b>0.1287</b>	<b>2.2700e-003</b>	<b>0.1310</b>	<b>0.0346</b>	<b>2.1500e-003</b>	<b>0.0368</b>		<b>268.9527</b>	<b>268.9527</b>	<b>0.0146</b>		<b>269.3185</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.3 Building Pad - 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	lb/day										lb/day					
Fugitive Dust					6.8700e-003	0.0000	6.8700e-003	7.7000e-004	0.0000	7.7000e-004			0.0000			0.0000
Off-Road	0.1942	3.8724	6.4551	9.7500e-003		0.0380	0.0380		0.0380	0.0380	0.0000	932.4690	932.4690	0.1531		936.2961
<b>Total</b>	<b>0.1942</b>	<b>3.8724</b>	<b>6.4551</b>	<b>9.7500e-003</b>	<b>6.8700e-003</b>	<b>0.0380</b>	<b>0.0449</b>	<b>7.7000e-004</b>	<b>0.0380</b>	<b>0.0388</b>	<b>0.0000</b>	<b>932.4690</b>	<b>932.4690</b>	<b>0.1531</b>		<b>936.2961</b>

**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	0.0115	0.3929	0.0868	1.1600e-003	0.0265	1.2200e-003	0.0277	7.2500e-003	1.1700e-003	8.4200e-003		126.2521	126.2521	8.9000e-003		126.4745
Vendor	5.6300e-003	0.1915	0.0465	5.1000e-004	0.0128	3.9000e-004	0.0132	3.6800e-003	3.7000e-004	4.0600e-003		54.1488	54.1488	3.3500e-003		54.2325
Worker	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
<b>Total</b>	<b>0.0506</b>	<b>0.6062</b>	<b>0.4337</b>	<b>2.5600e-003</b>	<b>0.1287</b>	<b>2.2700e-003</b>	<b>0.1310</b>	<b>0.0346</b>	<b>2.1500e-003</b>	<b>0.0368</b>		<b>268.9527</b>	<b>268.9527</b>	<b>0.0146</b>		<b>269.3185</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.4 Footings - 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					1.0000e-004	0.0000	1.0000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.3931	3.8122	5.2495	7.8900e-003		0.2022	0.2022		0.1861	0.1861		763.4795	763.4795	0.2469		769.6527
<b>Total</b>	<b>0.3931</b>	<b>3.8122</b>	<b>5.2495</b>	<b>7.8900e-003</b>	<b>1.0000e-004</b>	<b>0.2022</b>	<b>0.2023</b>	<b>2.0000e-005</b>	<b>0.1861</b>	<b>0.1861</b>		<b>763.4795</b>	<b>763.4795</b>	<b>0.2469</b>		<b>769.6527</b>

**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	1.1100e-003	0.0377	8.3300e-003	1.1000e-004	2.5400e-003	1.2000e-004	2.6600e-003	7.0000e-004	1.1000e-004	8.1000e-004		12.1202	12.1202	8.5000e-004		12.1416
Vendor	2.8100e-003	0.0958	0.0233	2.5000e-004	6.4000e-003	2.0000e-004	6.5900e-003	1.8400e-003	1.9000e-004	2.0300e-003		27.0744	27.0744	1.6700e-003		27.1162
Worker	0.0209	0.0137	0.1877	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3449	55.3449	1.4900e-003		55.3822
<b>Total</b>	<b>0.0249</b>	<b>0.1471</b>	<b>0.2193</b>	<b>9.2000e-004</b>	<b>0.0648</b>	<b>7.3000e-004</b>	<b>0.0656</b>	<b>0.0174</b>	<b>6.8000e-004</b>	<b>0.0180</b>		<b>94.5395</b>	<b>94.5395</b>	<b>4.0100e-003</b>		<b>94.6400</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.4 Footings - 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	lb/day										lb/day					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0000			0.0000
Off-Road	0.1245	3.4620	5.9673	7.8900e-003		0.0129	0.0129		0.0129	0.0129	0.0000	763.4795	763.4795	0.2469		769.6527
<b>Total</b>	<b>0.1245</b>	<b>3.4620</b>	<b>5.9673</b>	<b>7.8900e-003</b>	<b>4.0000e-005</b>	<b>0.0129</b>	<b>0.0129</b>	<b>1.0000e-005</b>	<b>0.0129</b>	<b>0.0129</b>	<b>0.0000</b>	<b>763.4795</b>	<b>763.4795</b>	<b>0.2469</b>		<b>769.6527</b>

**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	1.1100e-003	0.0377	8.3300e-003	1.1000e-004	2.5400e-003	1.2000e-004	2.6600e-003	7.0000e-004	1.1000e-004	8.1000e-004		12.1202	12.1202	8.5000e-004		12.1416
Vendor	2.8100e-003	0.0958	0.0233	2.5000e-004	6.4000e-003	2.0000e-004	6.5900e-003	1.8400e-003	1.9000e-004	2.0300e-003		27.0744	27.0744	1.6700e-003		27.1162
Worker	0.0209	0.0137	0.1877	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3449	55.3449	1.4900e-003		55.3822
<b>Total</b>	<b>0.0249</b>	<b>0.1471</b>	<b>0.2193</b>	<b>9.2000e-004</b>	<b>0.0648</b>	<b>7.3000e-004</b>	<b>0.0656</b>	<b>0.0174</b>	<b>6.8000e-004</b>	<b>0.0180</b>		<b>94.5395</b>	<b>94.5395</b>	<b>4.0100e-003</b>		<b>94.6400</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.5 Superstructure - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6665	7.3029	4.6999	9.4400e-003		0.3540	0.3540		0.3256	0.3256		913.9408	913.9408	0.2956		921.3305
<b>Total</b>	<b>0.6665</b>	<b>7.3029</b>	<b>4.6999</b>	<b>9.4400e-003</b>		<b>0.3540</b>	<b>0.3540</b>		<b>0.3256</b>	<b>0.3256</b>		<b>913.9408</b>	<b>913.9408</b>	<b>0.2956</b>		<b>921.3305</b>

**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	2.8800e-003	0.0982	0.0217	2.9000e-004	6.6200e-003	3.1000e-004	6.9200e-003	1.8100e-003	2.9000e-004	2.1100e-003		31.5630	31.5630	2.2200e-003		31.6186
Vendor	2.8100e-003	0.0958	0.0233	2.5000e-004	6.4000e-003	2.0000e-004	6.5900e-003	1.8400e-003	1.9000e-004	2.0300e-003		27.0744	27.0744	1.6700e-003		27.1162
Worker	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
<b>Total</b>	<b>0.0392</b>	<b>0.2158</b>	<b>0.3453</b>	<b>1.4300e-003</b>	<b>0.1024</b>	<b>1.1700e-003</b>	<b>0.1036</b>	<b>0.0274</b>	<b>1.0900e-003</b>	<b>0.0285</b>		<b>147.1892</b>	<b>147.1892</b>	<b>6.2800e-003</b>		<b>147.3464</b>



Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.5 Superstructure - 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	lb/day										lb/day					
Off-Road	0.1770	3.1279	5.8448	9.4400e-003		0.0155	0.0155		0.0155	0.0155	0.0000	913.9408	913.9408	0.2956		921.3305
<b>Total</b>	<b>0.1770</b>	<b>3.1279</b>	<b>5.8448</b>	<b>9.4400e-003</b>		<b>0.0155</b>	<b>0.0155</b>		<b>0.0155</b>	<b>0.0155</b>	<b>0.0000</b>	<b>913.9408</b>	<b>913.9408</b>	<b>0.2956</b>		<b>921.3305</b>

**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	2.8800e-003	0.0982	0.0217	2.9000e-004	6.6200e-003	3.1000e-004	6.9200e-003	1.8100e-003	2.9000e-004	2.1100e-003		31.5630	31.5630	2.2200e-003		31.6186
Vendor	2.8100e-003	0.0958	0.0233	2.5000e-004	6.4000e-003	2.0000e-004	6.5900e-003	1.8400e-003	1.9000e-004	2.0300e-003		27.0744	27.0744	1.6700e-003		27.1162
Worker	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
<b>Total</b>	<b>0.0392</b>	<b>0.2158</b>	<b>0.3453</b>	<b>1.4300e-003</b>	<b>0.1024</b>	<b>1.1700e-003</b>	<b>0.1036</b>	<b>0.0274</b>	<b>1.0900e-003</b>	<b>0.0285</b>		<b>147.1892</b>	<b>147.1892</b>	<b>6.2800e-003</b>		<b>147.3464</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.6 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>		<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.6000e-004	0.0295	6.5100e-003	9.0000e-005	2.4900e-003	9.0000e-005	2.5800e-003	6.7000e-004	9.0000e-005	7.5000e-004		9.4689	9.4689	6.7000e-004		9.4856
Vendor	5.6300e-003	0.1915	0.0465	5.1000e-004	0.0128	3.9000e-004	0.0132	3.6800e-003	3.7000e-004	4.0600e-003		54.1488	54.1488	3.3500e-003		54.2325
Worker	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
<b>Total</b>	<b>0.0400</b>	<b>0.2428</b>	<b>0.3534</b>	<b>1.4900e-003</b>	<b>0.1047</b>	<b>1.1400e-003</b>	<b>0.1059</b>	<b>0.0281</b>	<b>1.0700e-003</b>	<b>0.0291</b>		<b>152.1695</b>	<b>152.1695</b>	<b>6.4100e-003</b>		<b>152.3296</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.6 Building Construction - 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	lb/day										lb/day					
Off-Road	0.4592	11.0453	15.4081	0.0250		0.1666	0.1666		0.1666	0.1666	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>0.4592</b>	<b>11.0453</b>	<b>15.4081</b>	<b>0.0250</b>		<b>0.1666</b>	<b>0.1666</b>		<b>0.1666</b>	<b>0.1666</b>	<b>0.0000</b>	<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.6000e-004	0.0295	6.5100e-003	9.0000e-005	2.4900e-003	9.0000e-005	2.5800e-003	6.7000e-004	9.0000e-005	7.5000e-004		9.4689	9.4689	6.7000e-004		9.4856
Vendor	5.6300e-003	0.1915	0.0465	5.1000e-004	0.0128	3.9000e-004	0.0132	3.6800e-003	3.7000e-004	4.0600e-003		54.1488	54.1488	3.3500e-003		54.2325
Worker	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
<b>Total</b>	<b>0.0400</b>	<b>0.2428</b>	<b>0.3534</b>	<b>1.4900e-003</b>	<b>0.1047</b>	<b>1.1400e-003</b>	<b>0.1059</b>	<b>0.0281</b>	<b>1.0700e-003</b>	<b>0.0291</b>		<b>152.1695</b>	<b>152.1695</b>	<b>6.4100e-003</b>		<b>152.3296</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.6 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>1.8555</b>	<b>14.6040</b>	<b>14.3533</b>	<b>0.0250</b>		<b>0.7022</b>	<b>0.7022</b>		<b>0.6731</b>	<b>0.6731</b>		<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2000e-004	0.0273	6.4400e-003	9.0000e-005	6.4900e-003	8.0000e-005	6.5700e-003	1.6500e-003	8.0000e-005	1.7300e-003		9.3561	9.3561	6.6000e-004		9.3725
Vendor	5.2800e-003	0.1819	0.0440	5.0000e-004	0.0128	3.4000e-004	0.0131	3.6800e-003	3.3000e-004	4.0100e-003		53.6741	53.6741	3.2300e-003		53.7549
Worker	0.0314	0.0197	0.2778	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.3811	85.3811	2.1600e-003		85.4350
<b>Total</b>	<b>0.0375</b>	<b>0.2289</b>	<b>0.3282</b>	<b>1.4500e-003</b>	<b>0.1087</b>	<b>1.0600e-003</b>	<b>0.1098</b>	<b>0.0290</b>	<b>1.0000e-003</b>	<b>0.0301</b>		<b>148.4112</b>	<b>148.4112</b>	<b>6.0500e-003</b>		<b>148.5624</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.6 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	0.4592	11.0453	15.4081	0.0250		0.1666	0.1666		0.1666	0.1666	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>0.4592</b>	<b>11.0453</b>	<b>15.4081</b>	<b>0.0250</b>		<b>0.1666</b>	<b>0.1666</b>		<b>0.1666</b>	<b>0.1666</b>	<b>0.0000</b>	<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.2000e-004	0.0273	6.4400e-003	9.0000e-005	6.4900e-003	8.0000e-005	6.5700e-003	1.6500e-003	8.0000e-005	1.7300e-003		9.3561	9.3561	6.6000e-004		9.3725
Vendor	5.2800e-003	0.1819	0.0440	5.0000e-004	0.0128	3.4000e-004	0.0131	3.6800e-003	3.3000e-004	4.0100e-003		53.6741	53.6741	3.2300e-003		53.7549
Worker	0.0314	0.0197	0.2778	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.3811	85.3811	2.1600e-003		85.4350
<b>Total</b>	<b>0.0375</b>	<b>0.2289</b>	<b>0.3282</b>	<b>1.4500e-003</b>	<b>0.1087</b>	<b>1.0600e-003</b>	<b>0.1098</b>	<b>0.0290</b>	<b>1.0000e-003</b>	<b>0.0301</b>		<b>148.4112</b>	<b>148.4112</b>	<b>6.0500e-003</b>		<b>148.5624</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.7 Pool Excavation - 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					0.0257	0.0000	0.0257	3.8900e-003	0.0000	3.8900e-003			0.0000			0.0000
Off-Road	0.7361	7.6760	6.8482	0.0141		0.3311	0.3311		0.3046	0.3046		1,368.7058	1,368.7058	0.4427		1,379.7724
<b>Total</b>	<b>0.7361</b>	<b>7.6760</b>	<b>6.8482</b>	<b>0.0141</b>	<b>0.0257</b>	<b>0.3311</b>	<b>0.3568</b>	<b>3.8900e-003</b>	<b>0.3046</b>	<b>0.3085</b>		<b>1,368.7058</b>	<b>1,368.7058</b>	<b>0.4427</b>		<b>1,379.7724</b>

**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	0.1727	5.8928	1.3017	0.0174	0.4742	0.0184	0.4926	0.1277	0.0176	0.1453		1,893.7808	1,893.7808	0.1335		1,897.1175
Vendor	2.8100e-003	0.0958	0.0233	2.5000e-004	6.4000e-003	2.0000e-004	6.5900e-003	1.8400e-003	1.9000e-004	2.0300e-003		27.0744	27.0744	1.6700e-003		27.1162
Worker	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
<b>Total</b>	<b>0.2090</b>	<b>6.0104</b>	<b>1.6253</b>	<b>0.0186</b>	<b>0.5700</b>	<b>0.0192</b>	<b>0.5893</b>	<b>0.1533</b>	<b>0.0184</b>	<b>0.1717</b>		<b>2,009.4070</b>	<b>2,009.4070</b>	<b>0.1375</b>		<b>2,012.8452</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.7 Pool Excavation - 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	lb/day										lb/day					
Fugitive Dust					0.0100	0.0000	0.0100	1.5200e-003	0.0000	1.5200e-003			0.0000			0.0000
Off-Road	0.2276	5.1247	9.3185	0.0141		0.0232	0.0232		0.0232	0.0232	0.0000	1,368.7058	1,368.7058	0.4427		1,379.7724
<b>Total</b>	<b>0.2276</b>	<b>5.1247</b>	<b>9.3185</b>	<b>0.0141</b>	<b>0.0100</b>	<b>0.0232</b>	<b>0.0332</b>	<b>1.5200e-003</b>	<b>0.0232</b>	<b>0.0247</b>	<b>0.0000</b>	<b>1,368.7058</b>	<b>1,368.7058</b>	<b>0.4427</b>		<b>1,379.7724</b>

**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	0.1727	5.8928	1.3017	0.0174	0.4742	0.0184	0.4926	0.1277	0.0176	0.1453		1,893.7808	1,893.7808	0.1335		1,897.1175
Vendor	2.8100e-003	0.0958	0.0233	2.5000e-004	6.4000e-003	2.0000e-004	6.5900e-003	1.8400e-003	1.9000e-004	2.0300e-003		27.0744	27.0744	1.6700e-003		27.1162
Worker	0.0335	0.0218	0.3004	8.9000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		88.5519	88.5519	2.3900e-003		88.6115
<b>Total</b>	<b>0.2090</b>	<b>6.0104</b>	<b>1.6253</b>	<b>0.0186</b>	<b>0.5700</b>	<b>0.0192</b>	<b>0.5893</b>	<b>0.1533</b>	<b>0.0184</b>	<b>0.1717</b>		<b>2,009.4070</b>	<b>2,009.4070</b>	<b>0.1375</b>		<b>2,012.8452</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.7 Pool Excavation - 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					
Fugitive Dust					0.0257	0.0000	0.0257	3.8900e-003	0.0000	3.8900e-003			0.0000			0.0000
Off-Road	0.6379	6.2681	6.7446	0.0141		0.2662	0.2662		0.2449	0.2449		1,369.2637	1,369.2637	0.4429		1,380.3349
<b>Total</b>	<b>0.6379</b>	<b>6.2681</b>	<b>6.7446</b>	<b>0.0141</b>	<b>0.0257</b>	<b>0.2662</b>	<b>0.2919</b>	<b>3.8900e-003</b>	<b>0.2449</b>	<b>0.2488</b>		<b>1,369.2637</b>	<b>1,369.2637</b>	<b>0.4429</b>		<b>1,380.3349</b>

**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	0.1642	5.4545	1.2879	0.0172	1.5655	0.0159	1.5814	0.3956	0.0152	0.4108		1,871.2174	1,871.2174	0.1313		1,874.5005
Vendor	2.6400e-003	0.0910	0.0220	2.5000e-004	6.4000e-003	1.7000e-004	6.5700e-003	1.8400e-003	1.6000e-004	2.0000e-003		26.8370	26.8370	1.6200e-003		26.8774
Worker	0.0314	0.0197	0.2778	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.3811	85.3811	2.1600e-003		85.4350
<b>Total</b>	<b>0.1982</b>	<b>5.5652</b>	<b>1.5877</b>	<b>0.0183</b>	<b>1.6613</b>	<b>0.0167</b>	<b>1.6780</b>	<b>0.4211</b>	<b>0.0159</b>	<b>0.4371</b>		<b>1,983.4354</b>	<b>1,983.4354</b>	<b>0.1351</b>		<b>1,986.8130</b>



Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.7 Pool Excavation - 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					
Fugitive Dust					0.0100	0.0000	0.0100	1.5200e-003	0.0000	1.5200e-003			0.0000			0.0000
Off-Road	0.2276	5.1247	9.3185	0.0141		0.0232	0.0232		0.0232	0.0232	0.0000	1,369.2637	1,369.2637	0.4429		1,380.3349
<b>Total</b>	<b>0.2276</b>	<b>5.1247</b>	<b>9.3185</b>	<b>0.0141</b>	<b>0.0100</b>	<b>0.0232</b>	<b>0.0332</b>	<b>1.5200e-003</b>	<b>0.0232</b>	<b>0.0247</b>	<b>0.0000</b>	<b>1,369.2637</b>	<b>1,369.2637</b>	<b>0.4429</b>		<b>1,380.3349</b>

**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	0.1642	5.4545	1.2879	0.0172	1.5655	0.0159	1.5814	0.3956	0.0152	0.4108		1,871.2174	1,871.2174	0.1313		1,874.5005
Vendor	2.6400e-003	0.0910	0.0220	2.5000e-004	6.4000e-003	1.7000e-004	6.5700e-003	1.8400e-003	1.6000e-004	2.0000e-003		26.8370	26.8370	1.6200e-003		26.8774
Worker	0.0314	0.0197	0.2778	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.3811	85.3811	2.1600e-003		85.4350
<b>Total</b>	<b>0.1982</b>	<b>5.5652</b>	<b>1.5877</b>	<b>0.0183</b>	<b>1.6613</b>	<b>0.0167</b>	<b>1.6780</b>	<b>0.4211</b>	<b>0.0159</b>	<b>0.4371</b>		<b>1,983.4354</b>	<b>1,983.4354</b>	<b>0.1351</b>		<b>1,986.8130</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.8 Pool 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	1.2803	12.4877	10.4772	0.0185		0.6791	0.6791		0.6341	0.6341		1,779.3909	1,779.3909	0.4482		1,790.5962
<b>Total</b>	<b>1.2803</b>	<b>12.4877</b>	<b>10.4772</b>	<b>0.0185</b>		<b>0.6791</b>	<b>0.6791</b>		<b>0.6341</b>	<b>0.6341</b>		<b>1,779.3909</b>	<b>1,779.3909</b>	<b>0.4482</b>		<b>1,790.5962</b>

**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	1.4300e-003	0.0476	0.0112	1.5000e-004	3.4600e-003	1.4000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.3306	16.3306	1.1500e-003		16.3593
Vendor	2.6400e-003	0.0910	0.0220	2.5000e-004	6.4000e-003	1.7000e-004	6.5700e-003	1.8400e-003	1.6000e-004	2.0000e-003		26.8370	26.8370	1.6200e-003		26.8774
Worker	0.0314	0.0197	0.2778	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.3811	85.3811	2.1600e-003		85.4350
<b>Total</b>	<b>0.0355</b>	<b>0.1583</b>	<b>0.3110</b>	<b>1.2600e-003</b>	<b>0.0993</b>	<b>9.5000e-004</b>	<b>0.1002</b>	<b>0.0265</b>	<b>8.8000e-004</b>	<b>0.0274</b>		<b>128.5487</b>	<b>128.5487</b>	<b>4.9300e-003</b>		<b>128.6717</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.8 Pool 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	0.3589	6.7219	11.9216	0.0185		0.0423	0.0423		0.0423	0.0423	0.0000	1,779.3909	1,779.3909	0.4482		1,790.5962
<b>Total</b>	<b>0.3589</b>	<b>6.7219</b>	<b>11.9216</b>	<b>0.0185</b>		<b>0.0423</b>	<b>0.0423</b>		<b>0.0423</b>	<b>0.0423</b>	<b>0.0000</b>	<b>1,779.3909</b>	<b>1,779.3909</b>	<b>0.4482</b>		<b>1,790.5962</b>

**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	1.4300e-003	0.0476	0.0112	1.5000e-004	3.4600e-003	1.4000e-004	3.6000e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.3306	16.3306	1.1500e-003		16.3593
Vendor	2.6400e-003	0.0910	0.0220	2.5000e-004	6.4000e-003	1.7000e-004	6.5700e-003	1.8400e-003	1.6000e-004	2.0000e-003		26.8370	26.8370	1.6200e-003		26.8774
Worker	0.0314	0.0197	0.2778	8.6000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		85.3811	85.3811	2.1600e-003		85.4350
<b>Total</b>	<b>0.0355</b>	<b>0.1583</b>	<b>0.3110</b>	<b>1.2600e-003</b>	<b>0.0993</b>	<b>9.5000e-004</b>	<b>0.1002</b>	<b>0.0265</b>	<b>8.8000e-004</b>	<b>0.0274</b>		<b>128.5487</b>	<b>128.5487</b>	<b>4.9300e-003</b>		<b>128.6717</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.9 Architectural Coating - 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					
Archit. Coating	4.6350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.8395</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	7.8500e-003	4.9300e-003	0.0694	2.1000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		21.3453	21.3453	5.4000e-004		21.3588
<b>Total</b>	<b>7.8500e-003</b>	<b>4.9300e-003</b>	<b>0.0694</b>	<b>2.1000e-004</b>	<b>0.0224</b>	<b>1.6000e-004</b>	<b>0.0225</b>	<b>5.9300e-003</b>	<b>1.5000e-004</b>	<b>6.0800e-003</b>		<b>21.3453</b>	<b>21.3453</b>	<b>5.4000e-004</b>		<b>21.3588</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.9 Architectural Coating - 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					
Archit. Coating	4.6350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.6895</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	7.8500e-003	4.9300e-003	0.0694	2.1000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		21.3453	21.3453	5.4000e-004		21.3588
<b>Total</b>	<b>7.8500e-003</b>	<b>4.9300e-003</b>	<b>0.0694</b>	<b>2.1000e-004</b>	<b>0.0224</b>	<b>1.6000e-004</b>	<b>0.0225</b>	<b>5.9300e-003</b>	<b>1.5000e-004</b>	<b>6.0800e-003</b>		<b>21.3453</b>	<b>21.3453</b>	<b>5.4000e-004</b>		<b>21.3588</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.10 Site paving - 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	1.0154	11.1695	10.1339	0.0180		0.5142	0.5142		0.4730	0.4730		1,745.6637	1,745.6637	0.5646		1,759.7783
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0154</b>	<b>11.1695</b>	<b>10.1339</b>	<b>0.0180</b>		<b>0.5142</b>	<b>0.5142</b>		<b>0.4730</b>	<b>0.4730</b>		<b>1,745.6637</b>	<b>1,745.6637</b>	<b>0.5646</b>		<b>1,759.7783</b>

**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	0.0289	0.9600	0.2267	3.0300e-003	0.0699	2.8000e-003	0.0727	0.0191	2.6700e-003	0.0218		329.3343	329.3343	0.0231		329.9121
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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
<b>Total</b>	<b>0.0878</b>	<b>0.9970</b>	<b>0.7475</b>	<b>4.6400e-003</b>	<b>0.2375</b>	<b>4.0100e-003</b>	<b>0.2415</b>	<b>0.0636</b>	<b>3.7800e-003</b>	<b>0.0674</b>		<b>489.4237</b>	<b>489.4237</b>	<b>0.0272</b>		<b>490.1027</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**3.10 Site paving - 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	0.3265	7.0281	12.5096	0.0180		0.0295	0.0295		0.0295	0.0295	0.0000	1,745.6637	1,745.6637	0.5646		1,759.7783
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3265</b>	<b>7.0281</b>	<b>12.5096</b>	<b>0.0180</b>		<b>0.0295</b>	<b>0.0295</b>		<b>0.0295</b>	<b>0.0295</b>	<b>0.0000</b>	<b>1,745.6637</b>	<b>1,745.6637</b>	<b>0.5646</b>		<b>1,759.7783</b>

**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	0.0289	0.9600	0.2267	3.0300e-003	0.0699	2.8000e-003	0.0727	0.0191	2.6700e-003	0.0218		329.3343	329.3343	0.0231		329.9121
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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
<b>Total</b>	<b>0.0878</b>	<b>0.9970</b>	<b>0.7475</b>	<b>4.6400e-003</b>	<b>0.2375</b>	<b>4.0100e-003</b>	<b>0.2415</b>	<b>0.0636</b>	<b>3.7800e-003</b>	<b>0.0674</b>		<b>489.4237</b>	<b>489.4237</b>	<b>0.0272</b>		<b>490.1027</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**4.0 Operational Detail - Mobile**

**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	0.8024	3.7822	9.3127	0.0339	2.7580	0.0263	2.7843	0.7379	0.0245	0.7624		3,448.6298	3,448.6298	0.1657		3,452.7719
Unmitigated	0.8024	3.7822	9.3127	0.0339	2.7580	0.0263	2.7843	0.7379	0.0245	0.7624		3,448.6298	3,448.6298	0.1657		3,452.7719

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Recreational Swimming Pool	532.80	168.35	251.60	1,073,000	1,073,000
Total	532.80	168.35	251.60	1,073,000	1,073,000

**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
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Recreational Swimming Pool	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896



Whittier Aquatics Facility - South Coast Air Basin, Summer

**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

**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					
Recreational Swimming Pool	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
Recreational Swimming Pool	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 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	0.2236	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-003
Unmitigated	0.2236	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-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	0.0254					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-004	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-003
<b>Total</b>	<b>0.2236</b>	<b>2.0000e-005</b>	<b>1.8900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>1.0000e-005</b>		<b>4.3200e-003</b>

#### 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	0.0254					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-004	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-003
<b>Total</b>	<b>0.2236</b>	<b>2.0000e-005</b>	<b>1.8900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>1.0000e-005</b>		<b>4.3200e-003</b>

Whittier Aquatics Facility - South Coast Air Basin, Summer

**10.0 Stationary Equipment**

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	48	4607	1.99	CNG

**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.7765	3.4561	13.8355	0.0847		1.0730	1.0730		1.0730	1.0730		16,941.4659	16,941.4659	0.3247		16,949.5837
<b>Total</b>	<b>0.7765</b>	<b>3.4561</b>	<b>13.8355</b>	<b>0.0847</b>		<b>1.0730</b>	<b>1.0730</b>		<b>1.0730</b>	<b>1.0730</b>		<b>16,941.4659</b>	<b>16,941.4659</b>	<b>0.3247</b>		<b>16,949.5837</b>

**Whittier Aquatics Facility**  
**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Recreational Swimming Pool	18.50	1000sqft	2.30	18,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Pool surface area is 18,500 square feet, lot is 100,000 square feet, pool building is 10,000 square feet

Construction Phase - Work Tasks per County Preliminary Project Schedule, adding short site paving and architectural coating tasks.

Off-road Equipment - Equipment estimated for building pad construction, including concrete trowel machine (surfacing equipment).

Off-road Equipment - Equipment estimated needed for asphalt demo and site grading

Off-road Equipment - Equipment estimated for constructing building footings/caissons.

Off-road Equipment - Pool construction equipment need assumptions after excavation, gunnite spraying, trenching for water piping, concrete work around pools, pool equipment (heater, pumps, etc.) installation.

Off-road Equipment - Equipment estimates for primary pool excavation work

Off-road Equipment - Equipment needed for parking area paving

Off-road Equipment - Equipment estimated for superstructure part of building construction

Trips and VMT - Updated with project specific estimates

Grading - Site specifics import/export values added for phase types in CalEEMod that can use import/export quantities.

Vehicle Trips - Revised to 10th edition of ITE to be consistent with traffic analysis.

Energy Use - Assumes 880 MWh total annual energy use from County records for similar pool facility divided by pool unit of 18.5 thousand sqft.

Construction Off-road Equipment Mitigation - Watering is assumed per SCAQMD Rule 403 compliance requirements, Tier 4 Interim required for off-road to reduce DPM emissions

Whittier Aquatics Facility - South Coast Air Basin, Winter

**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	2.2700	24.3660	12.5712	0.0290	1.1845	1.0938	2.2783	0.2039	1.0223	1.2262	0.0000	2,834.987 0	2,834.987 0	0.6403	0.0000	2,850.995 4
2021	3.0418	30.0333	23.4262	0.0588	1.2772	1.1735	2.2865	0.2266	1.1109	1.2926	0.0000	5,773.328 7	5,773.328 7	1.0420	0.0000	5,799.378 1
2022	6.1675	27.4828	25.4247	0.0585	1.7957	1.3833	2.7822	0.4541	1.3091	1.3893	0.0000	5,745.016 3	5,745.016 3	1.0455	0.0000	5,770.778 8
<b>Maximum</b>	<b>6.1675</b>	<b>30.0333</b>	<b>25.4247</b>	<b>0.0588</b>	<b>1.7957</b>	<b>1.3833</b>	<b>2.7822</b>	<b>0.4541</b>	<b>1.3091</b>	<b>1.3893</b>	<b>0.0000</b>	<b>5,773.328 7</b>	<b>5,773.328 7</b>	<b>1.0455</b>	<b>0.0000</b>	<b>5,799.378 1</b>

**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	0.5189	8.8831	14.9060	0.0290	0.5912	0.0435	0.6347	0.1141	0.0433	0.1573	0.0000	2,834.987 0	2,834.987 0	0.6403	0.0000	2,850.995 4
2021	0.9475	22.4998	26.7417	0.0588	0.6848	0.2105	0.8953	0.1829	0.2096	0.3924	0.0000	5,773.328 7	5,773.328 7	1.0420	0.0000	5,799.378 1
2022	5.0960	22.0295	27.9239	0.0585	1.7800	0.2110	1.9879	0.4517	0.2109	0.6587	0.0000	5,745.016 3	5,745.016 3	1.0455	0.0000	5,770.778 8
<b>Maximum</b>	<b>5.0960</b>	<b>22.4998</b>	<b>27.9239</b>	<b>0.0588</b>	<b>1.7800</b>	<b>0.2110</b>	<b>1.9879</b>	<b>0.4517</b>	<b>0.2109</b>	<b>0.6587</b>	<b>0.0000</b>	<b>5,773.328 7</b>	<b>5,773.328 7</b>	<b>1.0455</b>	<b>0.0000</b>	<b>5,799.378 1</b>

	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
<b>Percent Reduction</b>	<b>42.83</b>	<b>34.77</b>	<b>-13.27</b>	<b>0.00</b>	<b>28.22</b>	<b>87.26</b>	<b>52.12</b>	<b>15.37</b>	<b>86.53</b>	<b>69.08</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Whittier Aquatics Facility - South 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	0.2236	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-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	0.7689	3.8396	8.8747	0.0321	2.7580	0.0265	2.7845	0.7379	0.0247	0.7626		3,270.4241	3,270.4241	0.1667		3,274.5924
Stationary	0.7765	3.4561	13.8355	0.0847		1.0730	1.0730		1.0730	1.0730		16,941.4659	16,941.4659	0.3247		16,949.5837
<b>Total</b>	<b>1.7690</b>	<b>7.2957</b>	<b>22.7122</b>	<b>0.1168</b>	<b>2.7580</b>	<b>1.0995</b>	<b>3.8575</b>	<b>0.7379</b>	<b>1.0977</b>	<b>1.8355</b>		<b>20,211.8940</b>	<b>20,211.8940</b>	<b>0.4915</b>	<b>0.0000</b>	<b>20,224.1804</b>

**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	lb/day										lb/day					
Area	0.2236	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-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	0.7689	3.8396	8.8747	0.0321	2.7580	0.0265	2.7845	0.7379	0.0247	0.7626		3,270.4241	3,270.4241	0.1667		3,274.5924
Stationary	0.7765	3.4561	13.8355	0.0847		1.0730	1.0730		1.0730	1.0730		16,941.4659	16,941.4659	0.3247		16,949.5837
<b>Total</b>	<b>1.7690</b>	<b>7.2957</b>	<b>22.7122</b>	<b>0.1168</b>	<b>2.7580</b>	<b>1.0995</b>	<b>3.8575</b>	<b>0.7379</b>	<b>1.0977</b>	<b>1.8355</b>		<b>20,211.8940</b>	<b>20,211.8940</b>	<b>0.4915</b>	<b>0.0000</b>	<b>20,224.1804</b>

	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
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition/Grading	Demolition	12/1/2020	1/14/2021	5	33	Asphalt Demo and Grading
2	Building Pad	Site Preparation	1/15/2021	3/2/2021	5	33	Pool Building Pad
3	Footings	Grading	2/15/2021	4/30/2021	5	55	Building footings/caissons
4	Superstructure	Building Construction	3/15/2021	6/14/2021	5	66	Pool building superstructure
5	Building Construction	Building Construction	5/17/2021	3/18/2022	5	220	Pool building constructions
6	Pool Excavation	Grading	11/15/2021	1/13/2022	5	44	Pools Excavations
7	Pool Construction	Building Construction	1/14/2022	7/1/2022	5	121	Pool/heaters/piping construction
8	Architectural Coating	Architectural Coating	3/21/2022	4/15/2022	5	20	Building Architectural Coating
9	Site paving	Paving	6/16/2022	6/29/2022	5	10	Parking lot paving

**Non-Residential Indoor: 15,000; Non-Residential Outdoor: 5,000**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition/Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition/Grading	Graders	1	8.00	187	0.41
Demolition/Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition/Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Pad	Generator Sets	1	7.00	84	0.74
Building Pad	Surfacing Equipment	1	7.00	50	0.30
Building Pad	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Whittier Aquatics Facility - South Coast Air Basin, Winter

Footings	Excavators	1	8.00	158	0.38
Footings	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Superstructure	Cranes	1	8.00	231	0.29
Superstructure	Forklifts	1	7.00	89	0.20
Superstructure	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Pool Excavation	Excavators	1	8.00	158	0.38
Pool Excavation	Rubber Tired Loaders	1	8.00	203	0.36
Pool Excavation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Pool Construction	Cranes	1	8.00	231	0.29
Pool Construction	Forklifts	1	7.00	89	0.20
Pool Construction	Pumps	1	6.00	84	0.74
Pool Construction	Surfacing Equipment	1	4.00	50	0.30
Pool Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Pool Construction	Trenchers	1	8.00	78	0.50
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site paving	Graders	1	6.00	187	0.41
Site paving	Pavers	1	8.00	130	0.42
Site paving	Rollers	2	8.00	80	0.38
Site paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37



Whittier Aquatics Facility - South Coast Air Basin, Winter

**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
Demolition/Grading	4	10.00	2.00	124.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Pad	3	8.00	2.00	50.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Footings	2	5.00	1.00	8.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Superstructure	3	8.00	1.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	8.00	2.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pool Excavation	3	8.00	1.00	1,000.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pool Construction	6	8.00	1.00	24.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site paving	5	15.00	0.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.2 Demolition/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					0.9727	0.0000	0.9727	0.1473	0.0000	0.1473			0.0000			0.0000
Off-Road	2.1830	23.0616	11.9123	0.0245		1.0885	1.0885		1.0172	1.0172		2,363.4943	2,363.4943	0.6103		2,378.7510
<b>Total</b>	<b>2.1830</b>	<b>23.0616</b>	<b>11.9123</b>	<b>0.0245</b>	<b>0.9727</b>	<b>1.0885</b>	<b>2.0612</b>	<b>0.1473</b>	<b>1.0172</b>	<b>1.1645</b>		<b>2,363.4943</b>	<b>2,363.4943</b>	<b>0.6103</b>		<b>2,378.7510</b>

**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	0.0307	1.0606	0.2325	2.8700e-003	0.0872	3.4400e-003	0.0907	0.0233	3.2900e-003	0.0266		311.1320	311.1320	0.0233		311.7133
Vendor	6.9400e-003	0.2106	0.0568	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6800e-003	1.0100e-003	4.7000e-003		53.0755	53.0755	3.7300e-003		53.1688
Worker	0.0493	0.0333	0.3696	1.0800e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		107.2851	107.2851	3.0900e-003		107.3623
<b>Total</b>	<b>0.0870</b>	<b>1.3045</b>	<b>0.6589</b>	<b>4.4500e-003</b>	<b>0.2118</b>	<b>5.3500e-003</b>	<b>0.2172</b>	<b>0.0566</b>	<b>5.0900e-003</b>	<b>0.0617</b>		<b>471.4926</b>	<b>471.4926</b>	<b>0.0301</b>		<b>472.2444</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.2 Demolition/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					0.3794	0.0000	0.3794	0.0574	0.0000	0.0574			0.0000			0.0000
Off-Road	0.4319	7.5786	14.2471	0.0245		0.0382	0.0382		0.0382	0.0382	0.0000	2,363.494 3	2,363.494 3	0.6103		2,378.751 0
<b>Total</b>	<b>0.4319</b>	<b>7.5786</b>	<b>14.2471</b>	<b>0.0245</b>	<b>0.3794</b>	<b>0.0382</b>	<b>0.4175</b>	<b>0.0574</b>	<b>0.0382</b>	<b>0.0956</b>	<b>0.0000</b>	<b>2,363.494 3</b>	<b>2,363.494 3</b>	<b>0.6103</b>		<b>2,378.751 0</b>

**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	0.0307	1.0606	0.2325	2.8700e-003	0.0872	3.4400e-003	0.0907	0.0233	3.2900e-003	0.0266		311.1320	311.1320	0.0233		311.7133
Vendor	6.9400e-003	0.2106	0.0568	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6800e-003	1.0100e-003	4.7000e-003		53.0755	53.0755	3.7300e-003		53.1688
Worker	0.0493	0.0333	0.3696	1.0800e-003	0.1118	8.5000e-004	0.1126	0.0296	7.9000e-004	0.0304		107.2851	107.2851	3.0900e-003		107.3623
<b>Total</b>	<b>0.0870</b>	<b>1.3045</b>	<b>0.6589</b>	<b>4.4500e-003</b>	<b>0.2118</b>	<b>5.3500e-003</b>	<b>0.2172</b>	<b>0.0566</b>	<b>5.0900e-003</b>	<b>0.0617</b>		<b>471.4926</b>	<b>471.4926</b>	<b>0.0301</b>		<b>472.2444</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.2 Demolition/Grading - 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					0.9727	0.0000	0.9727	0.1473	0.0000	0.1473			0.0000			0.0000
Off-Road	2.0714	21.8296	11.7393	0.0245		1.0050	1.0050		0.9385	0.9385		2,362.6010	2,362.6010	0.6069		2,377.7722
<b>Total</b>	<b>2.0714</b>	<b>21.8296</b>	<b>11.7393</b>	<b>0.0245</b>	<b>0.9727</b>	<b>1.0050</b>	<b>1.9777</b>	<b>0.1473</b>	<b>0.9385</b>	<b>1.0858</b>		<b>2,362.6010</b>	<b>2,362.6010</b>	<b>0.6069</b>		<b>2,377.7722</b>

**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	0.0293	0.9863	0.2293	2.8300e-003	0.1799	3.0800e-003	0.1830	0.0460	2.9500e-003	0.0490		307.7291	307.7291	0.0229		308.3014
Vendor	5.9100e-003	0.1911	0.0517	4.9000e-004	0.0128	4.0000e-004	0.0132	3.6800e-003	3.9000e-004	4.0700e-003		52.6748	52.6748	3.5800e-003		52.7642
Worker	0.0461	0.0300	0.3399	1.0400e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.8151	103.8151	2.7900e-003		103.8849
<b>Total</b>	<b>0.0813</b>	<b>1.2073</b>	<b>0.6209</b>	<b>4.3600e-003</b>	<b>0.3045</b>	<b>4.3100e-003</b>	<b>0.3088</b>	<b>0.0794</b>	<b>4.1000e-003</b>	<b>0.0835</b>		<b>464.2190</b>	<b>464.2190</b>	<b>0.0293</b>		<b>464.9506</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.2 Demolition/Grading - 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	lb/day										lb/day					
Fugitive Dust					0.3794	0.0000	0.3794	0.0574	0.0000	0.0574			0.0000			0.0000
Off-Road	0.4319	7.5786	14.2471	0.0245		0.0382	0.0382		0.0382	0.0382	0.0000	2,362.6010	2,362.6010	0.6069		2,377.7722
<b>Total</b>	<b>0.4319</b>	<b>7.5786</b>	<b>14.2471</b>	<b>0.0245</b>	<b>0.3794</b>	<b>0.0382</b>	<b>0.4175</b>	<b>0.0574</b>	<b>0.0382</b>	<b>0.0956</b>	<b>0.0000</b>	<b>2,362.6010</b>	<b>2,362.6010</b>	<b>0.6069</b>		<b>2,377.7722</b>

**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	0.0293	0.9863	0.2293	2.8300e-003	0.1799	3.0800e-003	0.1830	0.0460	2.9500e-003	0.0490		307.7291	307.7291	0.0229		308.3014
Vendor	5.9100e-003	0.1911	0.0517	4.9000e-004	0.0128	4.0000e-004	0.0132	3.6800e-003	3.9000e-004	4.0700e-003		52.6748	52.6748	3.5800e-003		52.7642
Worker	0.0461	0.0300	0.3399	1.0400e-003	0.1118	8.3000e-004	0.1126	0.0296	7.6000e-004	0.0304		103.8151	103.8151	2.7900e-003		103.8849
<b>Total</b>	<b>0.0813</b>	<b>1.2073</b>	<b>0.6209</b>	<b>4.3600e-003</b>	<b>0.3045</b>	<b>4.3100e-003</b>	<b>0.3088</b>	<b>0.0794</b>	<b>4.1000e-003</b>	<b>0.0835</b>		<b>464.2190</b>	<b>464.2190</b>	<b>0.0293</b>		<b>464.9506</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.3 Building Pad - 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					0.0176	0.0000	0.0176	1.9700e-003	0.0000	1.9700e-003			0.0000			0.0000
Off-Road	0.5939	5.3989	6.1121	9.7500e-003		0.2918	0.2918		0.2802	0.2802		932.4690	932.4690	0.1531		936.2961
<b>Total</b>	<b>0.5939</b>	<b>5.3989</b>	<b>6.1121</b>	<b>9.7500e-003</b>	<b>0.0176</b>	<b>0.2918</b>	<b>0.3094</b>	<b>1.9700e-003</b>	<b>0.2802</b>	<b>0.2822</b>		<b>932.4690</b>	<b>932.4690</b>	<b>0.1531</b>		<b>936.2961</b>

**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	0.0118	0.3977	0.0925	1.1400e-003	0.0265	1.2400e-003	0.0277	7.2500e-003	1.1900e-003	8.4400e-003		124.0843	124.0843	9.2300e-003		124.3151
Vendor	5.9100e-003	0.1911	0.0517	4.9000e-004	0.0128	4.0000e-004	0.0132	3.6800e-003	3.9000e-004	4.0700e-003		52.6748	52.6748	3.5800e-003		52.7642
Worker	0.0369	0.0240	0.2719	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		83.0521	83.0521	2.2300e-003		83.1079
<b>Total</b>	<b>0.0546</b>	<b>0.6128</b>	<b>0.4160</b>	<b>2.4600e-003</b>	<b>0.1287</b>	<b>2.3000e-003</b>	<b>0.1310</b>	<b>0.0346</b>	<b>2.1900e-003</b>	<b>0.0368</b>		<b>259.8112</b>	<b>259.8112</b>	<b>0.0150</b>		<b>260.1872</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.3 Building Pad - 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	lb/day										lb/day					
Fugitive Dust					6.8700e-003	0.0000	6.8700e-003	7.7000e-004	0.0000	7.7000e-004			0.0000			0.0000
Off-Road	0.1942	3.8724	6.4551	9.7500e-003		0.0380	0.0380		0.0380	0.0380	0.0000	932.4690	932.4690	0.1531		936.2961
<b>Total</b>	<b>0.1942</b>	<b>3.8724</b>	<b>6.4551</b>	<b>9.7500e-003</b>	<b>6.8700e-003</b>	<b>0.0380</b>	<b>0.0449</b>	<b>7.7000e-004</b>	<b>0.0380</b>	<b>0.0388</b>	<b>0.0000</b>	<b>932.4690</b>	<b>932.4690</b>	<b>0.1531</b>		<b>936.2961</b>

**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	0.0118	0.3977	0.0925	1.1400e-003	0.0265	1.2400e-003	0.0277	7.2500e-003	1.1900e-003	8.4400e-003		124.0843	124.0843	9.2300e-003		124.3151
Vendor	5.9100e-003	0.1911	0.0517	4.9000e-004	0.0128	4.0000e-004	0.0132	3.6800e-003	3.9000e-004	4.0700e-003		52.6748	52.6748	3.5800e-003		52.7642
Worker	0.0369	0.0240	0.2719	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		83.0521	83.0521	2.2300e-003		83.1079
<b>Total</b>	<b>0.0546</b>	<b>0.6128</b>	<b>0.4160</b>	<b>2.4600e-003</b>	<b>0.1287</b>	<b>2.3000e-003</b>	<b>0.1310</b>	<b>0.0346</b>	<b>2.1900e-003</b>	<b>0.0368</b>		<b>259.8112</b>	<b>259.8112</b>	<b>0.0150</b>		<b>260.1872</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.4 Footings - 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					1.0000e-004	0.0000	1.0000e-004	2.0000e-005	0.0000	2.0000e-005			0.0000			0.0000
Off-Road	0.3931	3.8122	5.2495	7.8900e-003		0.2022	0.2022		0.1861	0.1861		763.4795	763.4795	0.2469		769.6527
<b>Total</b>	<b>0.3931</b>	<b>3.8122</b>	<b>5.2495</b>	<b>7.8900e-003</b>	<b>1.0000e-004</b>	<b>0.2022</b>	<b>0.2023</b>	<b>2.0000e-005</b>	<b>0.1861</b>	<b>0.1861</b>		<b>763.4795</b>	<b>763.4795</b>	<b>0.2469</b>		<b>769.6527</b>

**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	1.1300e-003	0.0382	8.8800e-003	1.1000e-004	2.5400e-003	1.2000e-004	2.6600e-003	7.0000e-004	1.1000e-004	8.1000e-004		11.9121	11.9121	8.9000e-004		11.9343
Vendor	2.9600e-003	0.0955	0.0259	2.5000e-004	6.4000e-003	2.0000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		26.3374	26.3374	1.7900e-003		26.3821
Worker	0.0231	0.0150	0.1699	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.9076	51.9076	1.4000e-003		51.9425
<b>Total</b>	<b>0.0272</b>	<b>0.1487</b>	<b>0.2047</b>	<b>8.8000e-004</b>	<b>0.0648</b>	<b>7.3000e-004</b>	<b>0.0656</b>	<b>0.0174</b>	<b>6.8000e-004</b>	<b>0.0180</b>		<b>90.1570</b>	<b>90.1570</b>	<b>4.0800e-003</b>		<b>90.2588</b>



Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.4 Footings - 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	lb/day										lb/day					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0000			0.0000
Off-Road	0.1245	3.4620	5.9673	7.8900e-003		0.0129	0.0129		0.0129	0.0129	0.0000	763.4795	763.4795	0.2469		769.6527
<b>Total</b>	<b>0.1245</b>	<b>3.4620</b>	<b>5.9673</b>	<b>7.8900e-003</b>	<b>4.0000e-005</b>	<b>0.0129</b>	<b>0.0129</b>	<b>1.0000e-005</b>	<b>0.0129</b>	<b>0.0129</b>	<b>0.0000</b>	<b>763.4795</b>	<b>763.4795</b>	<b>0.2469</b>		<b>769.6527</b>

**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	1.1300e-003	0.0382	8.8800e-003	1.1000e-004	2.5400e-003	1.2000e-004	2.6600e-003	7.0000e-004	1.1000e-004	8.1000e-004		11.9121	11.9121	8.9000e-004		11.9343
Vendor	2.9600e-003	0.0955	0.0259	2.5000e-004	6.4000e-003	2.0000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		26.3374	26.3374	1.7900e-003		26.3821
Worker	0.0231	0.0150	0.1699	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.9076	51.9076	1.4000e-003		51.9425
<b>Total</b>	<b>0.0272</b>	<b>0.1487</b>	<b>0.2047</b>	<b>8.8000e-004</b>	<b>0.0648</b>	<b>7.3000e-004</b>	<b>0.0656</b>	<b>0.0174</b>	<b>6.8000e-004</b>	<b>0.0180</b>		<b>90.1570</b>	<b>90.1570</b>	<b>4.0800e-003</b>		<b>90.2588</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.5 Superstructure - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6665	7.3029	4.6999	9.4400e-003		0.3540	0.3540		0.3256	0.3256		913.9408	913.9408	0.2956		921.3305
<b>Total</b>	<b>0.6665</b>	<b>7.3029</b>	<b>4.6999</b>	<b>9.4400e-003</b>		<b>0.3540</b>	<b>0.3540</b>		<b>0.3256</b>	<b>0.3256</b>		<b>913.9408</b>	<b>913.9408</b>	<b>0.2956</b>		<b>921.3305</b>

**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	2.9500e-003	0.0994	0.0231	2.9000e-004	6.6200e-003	3.1000e-004	6.9300e-003	1.8100e-003	3.0000e-004	2.1100e-003		31.0211	31.0211	2.3100e-003		31.0788
Vendor	2.9600e-003	0.0955	0.0259	2.5000e-004	6.4000e-003	2.0000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		26.3374	26.3374	1.7900e-003		26.3821
Worker	0.0369	0.0240	0.2719	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		83.0521	83.0521	2.2300e-003		83.1079
<b>Total</b>	<b>0.0428</b>	<b>0.2189</b>	<b>0.3209</b>	<b>1.3700e-003</b>	<b>0.1024</b>	<b>1.1700e-003</b>	<b>0.1036</b>	<b>0.0274</b>	<b>1.1000e-003</b>	<b>0.0285</b>		<b>140.4106</b>	<b>140.4106</b>	<b>6.3300e-003</b>		<b>140.5688</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.5 Superstructure - 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	lb/day										lb/day					
Off-Road	0.1770	3.1279	5.8448	9.4400e-003		0.0155	0.0155		0.0155	0.0155	0.0000	913.9408	913.9408	0.2956		921.3305
<b>Total</b>	<b>0.1770</b>	<b>3.1279</b>	<b>5.8448</b>	<b>9.4400e-003</b>		<b>0.0155</b>	<b>0.0155</b>		<b>0.0155</b>	<b>0.0155</b>	<b>0.0000</b>	<b>913.9408</b>	<b>913.9408</b>	<b>0.2956</b>		<b>921.3305</b>

**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	2.9500e-003	0.0994	0.0231	2.9000e-004	6.6200e-003	3.1000e-004	6.9300e-003	1.8100e-003	3.0000e-004	2.1100e-003		31.0211	31.0211	2.3100e-003		31.0788
Vendor	2.9600e-003	0.0955	0.0259	2.5000e-004	6.4000e-003	2.0000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		26.3374	26.3374	1.7900e-003		26.3821
Worker	0.0369	0.0240	0.2719	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		83.0521	83.0521	2.2300e-003		83.1079
<b>Total</b>	<b>0.0428</b>	<b>0.2189</b>	<b>0.3209</b>	<b>1.3700e-003</b>	<b>0.1024</b>	<b>1.1700e-003</b>	<b>0.1036</b>	<b>0.0274</b>	<b>1.1000e-003</b>	<b>0.0285</b>		<b>140.4106</b>	<b>140.4106</b>	<b>6.3300e-003</b>		<b>140.5688</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.6 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>		<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9000e-004	0.0298	6.9300e-003	9.0000e-005	2.4900e-003	9.0000e-005	2.5800e-003	6.7000e-004	9.0000e-005	7.6000e-004		9.3063	9.3063	6.9000e-004		9.3236
Vendor	5.9100e-003	0.1911	0.0517	4.9000e-004	0.0128	4.0000e-004	0.0132	3.6800e-003	3.9000e-004	4.0700e-003		52.6748	52.6748	3.5800e-003		52.7642
Worker	0.0369	0.0240	0.2719	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		83.0521	83.0521	2.2300e-003		83.1079
<b>Total</b>	<b>0.0437</b>	<b>0.2449</b>	<b>0.3305</b>	<b>1.4100e-003</b>	<b>0.1047</b>	<b>1.1500e-003</b>	<b>0.1059</b>	<b>0.0281</b>	<b>1.0900e-003</b>	<b>0.0292</b>		<b>145.0332</b>	<b>145.0332</b>	<b>6.5000e-003</b>		<b>145.1958</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.6 Building Construction - 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	lb/day										lb/day					
Off-Road	0.4592	11.0453	15.4081	0.0250		0.1666	0.1666		0.1666	0.1666	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>0.4592</b>	<b>11.0453</b>	<b>15.4081</b>	<b>0.0250</b>		<b>0.1666</b>	<b>0.1666</b>		<b>0.1666</b>	<b>0.1666</b>	<b>0.0000</b>	<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9000e-004	0.0298	6.9300e-003	9.0000e-005	2.4900e-003	9.0000e-005	2.5800e-003	6.7000e-004	9.0000e-005	7.6000e-004		9.3063	9.3063	6.9000e-004		9.3236
Vendor	5.9100e-003	0.1911	0.0517	4.9000e-004	0.0128	4.0000e-004	0.0132	3.6800e-003	3.9000e-004	4.0700e-003		52.6748	52.6748	3.5800e-003		52.7642
Worker	0.0369	0.0240	0.2719	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		83.0521	83.0521	2.2300e-003		83.1079
<b>Total</b>	<b>0.0437</b>	<b>0.2449</b>	<b>0.3305</b>	<b>1.4100e-003</b>	<b>0.1047</b>	<b>1.1500e-003</b>	<b>0.1059</b>	<b>0.0281</b>	<b>1.0900e-003</b>	<b>0.0292</b>		<b>145.0332</b>	<b>145.0332</b>	<b>6.5000e-003</b>		<b>145.1958</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.6 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>1.8555</b>	<b>14.6040</b>	<b>14.3533</b>	<b>0.0250</b>		<b>0.7022</b>	<b>0.7022</b>		<b>0.6731</b>	<b>0.6731</b>		<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.4000e-004	0.0276	6.8500e-003	8.0000e-005	6.4900e-003	8.0000e-005	6.5700e-003	1.6500e-003	8.0000e-005	1.7300e-003		9.1941	9.1941	6.8000e-004		9.2111
Vendor	5.5500e-003	0.1814	0.0490	4.9000e-004	0.0128	3.5000e-004	0.0132	3.6800e-003	3.4000e-004	4.0200e-003		52.2044	52.2044	3.4500e-003		52.2907
Worker	0.0347	0.0217	0.2510	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		80.0783	80.0783	2.0200e-003		80.1288
<b>Total</b>	<b>0.0411</b>	<b>0.2306</b>	<b>0.3068</b>	<b>1.3700e-003</b>	<b>0.1087</b>	<b>1.0700e-003</b>	<b>0.1098</b>	<b>0.0290</b>	<b>1.0100e-003</b>	<b>0.0301</b>		<b>141.4768</b>	<b>141.4768</b>	<b>6.1500e-003</b>		<b>141.6306</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.6 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	0.4592	11.0453	15.4081	0.0250		0.1666	0.1666		0.1666	0.1666	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>0.4592</b>	<b>11.0453</b>	<b>15.4081</b>	<b>0.0250</b>		<b>0.1666</b>	<b>0.1666</b>		<b>0.1666</b>	<b>0.1666</b>	<b>0.0000</b>	<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.4000e-004	0.0276	6.8500e-003	8.0000e-005	6.4900e-003	8.0000e-005	6.5700e-003	1.6500e-003	8.0000e-005	1.7300e-003		9.1941	9.1941	6.8000e-004		9.2111
Vendor	5.5500e-003	0.1814	0.0490	4.9000e-004	0.0128	3.5000e-004	0.0132	3.6800e-003	3.4000e-004	4.0200e-003		52.2044	52.2044	3.4500e-003		52.2907
Worker	0.0347	0.0217	0.2510	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		80.0783	80.0783	2.0200e-003		80.1288
<b>Total</b>	<b>0.0411</b>	<b>0.2306</b>	<b>0.3068</b>	<b>1.3700e-003</b>	<b>0.1087</b>	<b>1.0700e-003</b>	<b>0.1098</b>	<b>0.0290</b>	<b>1.0100e-003</b>	<b>0.0301</b>		<b>141.4768</b>	<b>141.4768</b>	<b>6.1500e-003</b>		<b>141.6306</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.7 Pool Excavation - 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					0.0257	0.0000	0.0257	3.8900e-003	0.0000	3.8900e-003			0.0000			0.0000
Off-Road	0.7361	7.6760	6.8482	0.0141		0.3311	0.3311		0.3046	0.3046		1,368.7058	1,368.7058	0.4427		1,379.7724
<b>Total</b>	<b>0.7361</b>	<b>7.6760</b>	<b>6.8482</b>	<b>0.0141</b>	<b>0.0257</b>	<b>0.3311</b>	<b>0.3568</b>	<b>3.8900e-003</b>	<b>0.3046</b>	<b>0.3085</b>		<b>1,368.7058</b>	<b>1,368.7058</b>	<b>0.4427</b>		<b>1,379.7724</b>

**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	0.1772	5.9654	1.3868	0.0171	0.4742	0.0186	0.4929	0.1277	0.0178	0.1456		1,861.2648	1,861.2648	0.1385		1,864.7263
Vendor	2.9600e-003	0.0955	0.0259	2.5000e-004	6.4000e-003	2.0000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		26.3374	26.3374	1.7900e-003		26.3821
Worker	0.0369	0.0240	0.2719	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		83.0521	83.0521	2.2300e-003		83.1079
<b>Total</b>	<b>0.2170</b>	<b>6.0849</b>	<b>1.6845</b>	<b>0.0182</b>	<b>0.5700</b>	<b>0.0195</b>	<b>0.5896</b>	<b>0.1533</b>	<b>0.0186</b>	<b>0.1719</b>		<b>1,970.6542</b>	<b>1,970.6542</b>	<b>0.1425</b>		<b>1,974.2163</b>



Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.7 Pool Excavation - 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	lb/day										lb/day					
Fugitive Dust					0.0100	0.0000	0.0100	1.5200e-003	0.0000	1.5200e-003			0.0000			0.0000
Off-Road	0.2276	5.1247	9.3185	0.0141		0.0232	0.0232		0.0232	0.0232	0.0000	1,368.7058	1,368.7058	0.4427		1,379.7724
<b>Total</b>	<b>0.2276</b>	<b>5.1247</b>	<b>9.3185</b>	<b>0.0141</b>	<b>0.0100</b>	<b>0.0232</b>	<b>0.0332</b>	<b>1.5200e-003</b>	<b>0.0232</b>	<b>0.0247</b>	<b>0.0000</b>	<b>1,368.7058</b>	<b>1,368.7058</b>	<b>0.4427</b>		<b>1,379.7724</b>

**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	0.1772	5.9654	1.3868	0.0171	0.4742	0.0186	0.4929	0.1277	0.0178	0.1456		1,861.2648	1,861.2648	0.1385		1,864.7263
Vendor	2.9600e-003	0.0955	0.0259	2.5000e-004	6.4000e-003	2.0000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		26.3374	26.3374	1.7900e-003		26.3821
Worker	0.0369	0.0240	0.2719	8.3000e-004	0.0894	6.6000e-004	0.0901	0.0237	6.1000e-004	0.0243		83.0521	83.0521	2.2300e-003		83.1079
<b>Total</b>	<b>0.2170</b>	<b>6.0849</b>	<b>1.6845</b>	<b>0.0182</b>	<b>0.5700</b>	<b>0.0195</b>	<b>0.5896</b>	<b>0.1533</b>	<b>0.0186</b>	<b>0.1719</b>		<b>1,970.6542</b>	<b>1,970.6542</b>	<b>0.1425</b>		<b>1,974.2163</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.7 Pool Excavation - 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					
Fugitive Dust					0.0257	0.0000	0.0257	3.8900e-003	0.0000	3.8900e-003			0.0000			0.0000
Off-Road	0.6379	6.2681	6.7446	0.0141		0.2662	0.2662		0.2449	0.2449		1,369.2637	1,369.2637	0.4429		1,380.3349
<b>Total</b>	<b>0.6379</b>	<b>6.2681</b>	<b>6.7446</b>	<b>0.0141</b>	<b>0.0257</b>	<b>0.2662</b>	<b>0.2919</b>	<b>3.8900e-003</b>	<b>0.2449</b>	<b>0.2488</b>		<b>1,369.2637</b>	<b>1,369.2637</b>	<b>0.4429</b>		<b>1,380.3349</b>

**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	0.1684	5.5165	1.3690	0.0169	1.5655	0.0161	1.5816	0.3956	0.0154	0.4110		1,838.8140	1,838.8140	0.1361		1,842.2163
Vendor	2.7700e-003	0.0907	0.0245	2.4000e-004	6.4000e-003	1.8000e-004	6.5700e-003	1.8400e-003	1.7000e-004	2.0100e-003		26.1022	26.1022	1.7300e-003		26.1454
Worker	0.0347	0.0217	0.2510	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		80.0783	80.0783	2.0200e-003		80.1288
<b>Total</b>	<b>0.2059</b>	<b>5.6289</b>	<b>1.6445</b>	<b>0.0179</b>	<b>1.6613</b>	<b>0.0170</b>	<b>1.6782</b>	<b>0.4211</b>	<b>0.0162</b>	<b>0.4373</b>		<b>1,944.9945</b>	<b>1,944.9945</b>	<b>0.1398</b>		<b>1,948.4904</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.7 Pool Excavation - 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					
Fugitive Dust					0.0100	0.0000	0.0100	1.5200e-003	0.0000	1.5200e-003			0.0000			0.0000
Off-Road	0.2276	5.1247	9.3185	0.0141		0.0232	0.0232		0.0232	0.0232	0.0000	1,369.2637	1,369.2637	0.4429		1,380.3349
<b>Total</b>	<b>0.2276</b>	<b>5.1247</b>	<b>9.3185</b>	<b>0.0141</b>	<b>0.0100</b>	<b>0.0232</b>	<b>0.0332</b>	<b>1.5200e-003</b>	<b>0.0232</b>	<b>0.0247</b>	<b>0.0000</b>	<b>1,369.2637</b>	<b>1,369.2637</b>	<b>0.4429</b>		<b>1,380.3349</b>

**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	0.1684	5.5165	1.3690	0.0169	1.5655	0.0161	1.5816	0.3956	0.0154	0.4110		1,838.8140	1,838.8140	0.1361		1,842.2163
Vendor	2.7700e-003	0.0907	0.0245	2.4000e-004	6.4000e-003	1.8000e-004	6.5700e-003	1.8400e-003	1.7000e-004	2.0100e-003		26.1022	26.1022	1.7300e-003		26.1454
Worker	0.0347	0.0217	0.2510	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		80.0783	80.0783	2.0200e-003		80.1288
<b>Total</b>	<b>0.2059</b>	<b>5.6289</b>	<b>1.6445</b>	<b>0.0179</b>	<b>1.6613</b>	<b>0.0170</b>	<b>1.6782</b>	<b>0.4211</b>	<b>0.0162</b>	<b>0.4373</b>		<b>1,944.9945</b>	<b>1,944.9945</b>	<b>0.1398</b>		<b>1,948.4904</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.8 Pool 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	1.2803	12.4877	10.4772	0.0185		0.6791	0.6791		0.6341	0.6341		1,779.3909	1,779.3909	0.4482		1,790.5962
<b>Total</b>	<b>1.2803</b>	<b>12.4877</b>	<b>10.4772</b>	<b>0.0185</b>		<b>0.6791</b>	<b>0.6791</b>		<b>0.6341</b>	<b>0.6341</b>		<b>1,779.3909</b>	<b>1,779.3909</b>	<b>0.4482</b>		<b>1,790.5962</b>

**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	1.4700e-003	0.0481	0.0120	1.5000e-004	3.4600e-003	1.4000e-004	3.6100e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.0478	16.0478	1.1900e-003		16.0775
Vendor	2.7700e-003	0.0907	0.0245	2.4000e-004	6.4000e-003	1.8000e-004	6.5700e-003	1.8400e-003	1.7000e-004	2.0100e-003		26.1022	26.1022	1.7300e-003		26.1454
Worker	0.0347	0.0217	0.2510	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		80.0783	80.0783	2.0200e-003		80.1288
<b>Total</b>	<b>0.0389</b>	<b>0.1605</b>	<b>0.2874</b>	<b>1.1900e-003</b>	<b>0.0993</b>	<b>9.6000e-004</b>	<b>0.1002</b>	<b>0.0265</b>	<b>8.9000e-004</b>	<b>0.0274</b>		<b>122.2284</b>	<b>122.2284</b>	<b>4.9400e-003</b>		<b>122.3516</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.8 Pool 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	0.3589	6.7219	11.9216	0.0185		0.0423	0.0423		0.0423	0.0423	0.0000	1,779.3909	1,779.3909	0.4482		1,790.5962
<b>Total</b>	<b>0.3589</b>	<b>6.7219</b>	<b>11.9216</b>	<b>0.0185</b>		<b>0.0423</b>	<b>0.0423</b>		<b>0.0423</b>	<b>0.0423</b>	<b>0.0000</b>	<b>1,779.3909</b>	<b>1,779.3909</b>	<b>0.4482</b>		<b>1,790.5962</b>

**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	1.4700e-003	0.0481	0.0120	1.5000e-004	3.4600e-003	1.4000e-004	3.6100e-003	9.5000e-004	1.3000e-004	1.0800e-003		16.0478	16.0478	1.1900e-003		16.0775
Vendor	2.7700e-003	0.0907	0.0245	2.4000e-004	6.4000e-003	1.8000e-004	6.5700e-003	1.8400e-003	1.7000e-004	2.0100e-003		26.1022	26.1022	1.7300e-003		26.1454
Worker	0.0347	0.0217	0.2510	8.0000e-004	0.0894	6.4000e-004	0.0901	0.0237	5.9000e-004	0.0243		80.0783	80.0783	2.0200e-003		80.1288
<b>Total</b>	<b>0.0389</b>	<b>0.1605</b>	<b>0.2874</b>	<b>1.1900e-003</b>	<b>0.0993</b>	<b>9.6000e-004</b>	<b>0.1002</b>	<b>0.0265</b>	<b>8.9000e-004</b>	<b>0.0274</b>		<b>122.2284</b>	<b>122.2284</b>	<b>4.9400e-003</b>		<b>122.3516</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.9 Architectural Coating - 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					
Archit. Coating	4.6350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.8395</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	8.6700e-003	5.4200e-003	0.0628	2.0000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		20.0196	20.0196	5.0000e-004		20.0322
<b>Total</b>	<b>8.6700e-003</b>	<b>5.4200e-003</b>	<b>0.0628</b>	<b>2.0000e-004</b>	<b>0.0224</b>	<b>1.6000e-004</b>	<b>0.0225</b>	<b>5.9300e-003</b>	<b>1.5000e-004</b>	<b>6.0800e-003</b>		<b>20.0196</b>	<b>20.0196</b>	<b>5.0000e-004</b>		<b>20.0322</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.9 Architectural Coating - 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					
Archit. Coating	4.6350					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.6895</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	8.6700e-003	5.4200e-003	0.0628	2.0000e-004	0.0224	1.6000e-004	0.0225	5.9300e-003	1.5000e-004	6.0800e-003		20.0196	20.0196	5.0000e-004		20.0322
<b>Total</b>	<b>8.6700e-003</b>	<b>5.4200e-003</b>	<b>0.0628</b>	<b>2.0000e-004</b>	<b>0.0224</b>	<b>1.6000e-004</b>	<b>0.0225</b>	<b>5.9300e-003</b>	<b>1.5000e-004</b>	<b>6.0800e-003</b>		<b>20.0196</b>	<b>20.0196</b>	<b>5.0000e-004</b>		<b>20.0322</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.10 Site paving - 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	1.0154	11.1695	10.1339	0.0180		0.5142	0.5142		0.4730	0.4730		1,745.6637	1,745.6637	0.5646		1,759.7783
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0154</b>	<b>11.1695</b>	<b>10.1339</b>	<b>0.0180</b>		<b>0.5142</b>	<b>0.5142</b>		<b>0.4730</b>	<b>0.4730</b>		<b>1,745.6637</b>	<b>1,745.6637</b>	<b>0.5646</b>		<b>1,759.7783</b>

**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	0.0296	0.9709	0.2410	2.9800e-003	0.0699	2.8400e-003	0.0727	0.0191	2.7200e-003	0.0219		323.6313	323.6313	0.0240		324.2301
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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
<b>Total</b>	<b>0.0947</b>	<b>1.0115</b>	<b>0.7116</b>	<b>4.4900e-003</b>	<b>0.2375</b>	<b>4.0500e-003</b>	<b>0.2416</b>	<b>0.0636</b>	<b>3.8300e-003</b>	<b>0.0674</b>		<b>473.7781</b>	<b>473.7781</b>	<b>0.0277</b>		<b>474.4715</b>



Whittier Aquatics Facility - South Coast Air Basin, Winter

**3.10 Site paving - 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	0.3265	7.0281	12.5096	0.0180		0.0295	0.0295		0.0295	0.0295	0.0000	1,745.6637	1,745.6637	0.5646		1,759.7783
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.3265</b>	<b>7.0281</b>	<b>12.5096</b>	<b>0.0180</b>		<b>0.0295</b>	<b>0.0295</b>		<b>0.0295</b>	<b>0.0295</b>	<b>0.0000</b>	<b>1,745.6637</b>	<b>1,745.6637</b>	<b>0.5646</b>		<b>1,759.7783</b>

**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	0.0296	0.9709	0.2410	2.9800e-003	0.0699	2.8400e-003	0.0727	0.0191	2.7200e-003	0.0219		323.6313	323.6313	0.0240		324.2301
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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
<b>Total</b>	<b>0.0947</b>	<b>1.0115</b>	<b>0.7116</b>	<b>4.4900e-003</b>	<b>0.2375</b>	<b>4.0500e-003</b>	<b>0.2416</b>	<b>0.0636</b>	<b>3.8300e-003</b>	<b>0.0674</b>		<b>473.7781</b>	<b>473.7781</b>	<b>0.0277</b>		<b>474.4715</b>

Whittier Aquatics Facility - South Coast Air Basin, Winter

**4.0 Operational Detail - Mobile**

**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	0.7689	3.8396	8.8747	0.0321	2.7580	0.0265	2.7845	0.7379	0.0247	0.7626		3,270.424 1	3,270.424 1	0.1667		3,274.592 4
Unmitigated	0.7689	3.8396	8.8747	0.0321	2.7580	0.0265	2.7845	0.7379	0.0247	0.7626		3,270.424 1	3,270.424 1	0.1667		3,274.592 4

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Recreational Swimming Pool	532.80	168.35	251.60	1,073,000	1,073,000
Total	532.80	168.35	251.60	1,073,000	1,073,000

**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
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Recreational Swimming Pool	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896

### 5.0 Energy Detail

#### Whittier Aquatics Facility - South Coast Air Basin, Winter

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

### 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					
Recreational Swimming Pool	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### 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					
Recreational Swimming Pool	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## 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	0.2236	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-003
Unmitigated	0.2236	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-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	0.0254					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-004	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-003
<b>Total</b>	<b>0.2236</b>	<b>2.0000e-005</b>	<b>1.8900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>1.0000e-005</b>		<b>4.3200e-003</b>

#### 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	0.0254					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1980					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-004	2.0000e-005	1.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.0500e-003	4.0500e-003	1.0000e-005		4.3200e-003
<b>Total</b>	<b>0.2236</b>	<b>2.0000e-005</b>	<b>1.8900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.0500e-003</b>	<b>4.0500e-003</b>	<b>1.0000e-005</b>		<b>4.3200e-003</b>

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**10.0 Stationary Equipment**

**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	48	4607	1.99	CNG

**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.7765	3.4561	13.8355	0.0847		1.0730	1.0730		1.0730	1.0730		16,941.4659	16,941.4659	0.3247		16,949.5837
<b>Total</b>	<b>0.7765</b>	<b>3.4561</b>	<b>13.8355</b>	<b>0.0847</b>		<b>1.0730</b>	<b>1.0730</b>		<b>1.0730</b>	<b>1.0730</b>		<b>16,941.4659</b>	<b>16,941.4659</b>	<b>0.3247</b>		<b>16,949.5837</b>

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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	0.0260	0.2805	0.1446	3.3000e-004	0.0136	0.0126	0.0262	2.3300e-003	0.0118	0.0141	0.0000	29.6357	29.6357	6.6700e-003	0.0000	29.8026
2021	0.2447	2.1578	1.8631	3.7000e-003	0.0327	0.1009	0.1335	8.0800e-003	0.0956	0.1037	0.0000	319.3773	319.3773	0.0641	0.0000	320.9803
2022	0.1894	1.3026	1.1654	2.2100e-003	0.0181	0.0652	0.0833	4.6800e-003	0.0613	0.0660	0.0000	191.6123	191.6123	0.0413	0.0000	192.6438
<b>Maximum</b>	<b>0.2447</b>	<b>2.1578</b>	<b>1.8631</b>	<b>3.7000e-003</b>	<b>0.0327</b>	<b>0.1009</b>	<b>0.1335</b>	<b>8.0800e-003</b>	<b>0.0956</b>	<b>0.1037</b>	<b>0.0000</b>	<b>319.3773</b>	<b>319.3773</b>	<b>0.0641</b>	<b>0.0000</b>	<b>320.9803</b>

**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	5.9000e-003	0.1024	0.1714	3.3000e-004	6.7500e-003	5.0000e-004	7.2500e-003	1.3000e-003	5.0000e-004	1.8000e-003	0.0000	29.6357	29.6357	6.6700e-003	0.0000	29.8025
2021	0.0667	1.4582	2.0518	3.7000e-003	0.0292	0.0164	0.0456	7.5600e-003	0.0164	0.0239	0.0000	319.3770	319.3770	0.0641	0.0000	320.9800
2022	0.0885	0.8266	1.3055	2.2100e-003	0.0178	7.6200e-003	0.0254	4.6300e-003	7.6100e-003	0.0122	0.0000	191.6121	191.6121	0.0413	0.0000	192.6436
<b>Maximum</b>	<b>0.0885</b>	<b>1.4582</b>	<b>2.0518</b>	<b>3.7000e-003</b>	<b>0.0292</b>	<b>0.0164</b>	<b>0.0456</b>	<b>7.5600e-003</b>	<b>0.0164</b>	<b>0.0239</b>	<b>0.0000</b>	<b>319.3770</b>	<b>319.3770</b>	<b>0.0641</b>	<b>0.0000</b>	<b>320.9800</b>

	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
<b>Percent Reduction</b>	<b>65.00</b>	<b>36.18</b>	<b>-11.21</b>	<b>0.00</b>	<b>16.57</b>	<b>86.28</b>	<b>67.82</b>	<b>10.60</b>	<b>85.50</b>	<b>79.35</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	12-1-2020	2-28-2021	0.5498	0.2455
2	3-1-2021	5-31-2021	0.4276	0.2477
3	6-1-2021	8-31-2021	0.6442	0.4051
4	9-1-2021	11-30-2021	0.6808	0.4498
5	12-1-2021	2-28-2022	1.0074	0.6793
6	3-1-2022	5-31-2022	0.6245	0.3683
7	6-1-2022	8-31-2022	0.2209	0.1227
		Highest	1.0074	0.6793

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	0.0408	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	279.9886	279.9886	0.0116	2.3900e-003	280.9902
Mobile	0.1124	0.5883	1.3509	4.9000e-003	0.4075	3.9700e-003	0.4115	0.1092	3.7000e-003	0.1129	0.0000	452.8596	452.8596	0.0226	0.0000	453.4236
Stationary	0.0373	0.1659	0.6640	4.0700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	737.5538	737.5538	0.0141	0.0000	737.9072
Waste						0.0000	0.0000		0.0000	0.0000	21.4054	0.0000	21.4054	1.2650	0.0000	53.0310
Water						0.0000	0.0000		0.0000	0.0000	0.3471	6.9132	7.2604	0.0359	9.0000e-004	8.4273
<b>Total</b>	<b>0.1904</b>	<b>0.7542</b>	<b>2.0151</b>	<b>8.9700e-003</b>	<b>0.4075</b>	<b>0.0555</b>	<b>0.4630</b>	<b>0.1092</b>	<b>0.0552</b>	<b>0.1644</b>	<b>21.7525</b>	<b>1,477.3157</b>	<b>1,499.0682</b>	<b>1.3492</b>	<b>3.2900e-003</b>	<b>1,533.7798</b>

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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	0.0408	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.6000e-004	4.6000e-004	0.0000	0.0000	4.9000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	279.9886	279.9886	0.0116	2.3900e-003	280.9902
Mobile	0.1124	0.5883	1.3509	4.9000e-003	0.4075	3.9700e-003	0.4115	0.1092	3.7000e-003	0.1129	0.0000	452.8596	452.8596	0.0226	0.0000	453.4236
Stationary	0.0373	0.1659	0.6640	4.0700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	737.5538	737.5538	0.0141	0.0000	737.9072
Waste						0.0000	0.0000		0.0000	0.0000	21.4054	0.0000	21.4054	1.2650	0.0000	53.0310
Water						0.0000	0.0000		0.0000	0.0000	0.3471	6.9132	7.2604	0.0359	9.0000e-004	8.4273
<b>Total</b>	<b>0.1904</b>	<b>0.7542</b>	<b>2.0151</b>	<b>8.9700e-003</b>	<b>0.4075</b>	<b>0.0555</b>	<b>0.4630</b>	<b>0.1092</b>	<b>0.0552</b>	<b>0.1644</b>	<b>21.7525</b>	<b>1,477.3157</b>	<b>1,499.0682</b>	<b>1.3492</b>	<b>3.2900e-003</b>	<b>1,533.7798</b>

	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
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



## Whittier Aquatics Project

### Construction DPM Emissions and Modeling Emissions Inputs

#### Assumptions/Notes

- 1) DPM emissions are distributed into 16 volume sources placed over the site with the following characteristics
  - a) Main Pool (MP) area includes 8 volume sources on the north side of the site.
  - b) Small Pool (SP) area includes 4 volume sources on the southeast corner of the site.
  - c) Pool Building (PB) area includes 4 volume sources on the southwest corner of the site.
- 2) Each of the work task emissions is distributed into the appropriate work areas as follows:
  - a) PB area for pool building work tasks.
  - b) All for activities performed over the entire site (PB, SP, and MP).
  - c) Pool for work done in the two pool areas (SP and MP), distributed by the number of area sources.
  - d) PB and SP for the paving done on the southside of the site.

Unmitigated Case Work Task	Emissions from CalEEMod (tons)			Source Type	Number	Average g/s
	2020	2021	2022			
Demo/Grading	1.25E-02	5.03E-03		All	16	8.38E-05
Building Pad		4.81E-03		PB	4	9.20E-05
Footings		5.56E-03		PB	4	1.06E-04
Superstructure		1.17E-02		PB	4	2.24E-04
Building Construction		6.74E-02	1.93E-02	PB	4	1.66E-03
Pool Excavation		5.79E-03	1.20E-03	Pool	12	4.46E-05
Pool Construction			4.11E-02	Pool	12	2.62E-04
Arch Coating			8.20E-04	PB	4	1.57E-05
Paving			2.57E-03	PB and SP	8	2.46E-05

MP	3.90E-04
SP	4.15E-04
PB	2.20E-03

Mitigated Case Work Task	Emissions from CalEEMod (tons)			Source Type	Number	Average g/s
	2020	2021	2022			
Demo/Grading	4.40E-04	1.90E-04		All	16	3.01E-06
Building Pad		6.30E-04		PB	4	1.21E-05
Footings		3.50E-04		PB	4	6.70E-06
Superstructure		5.10E-04		PB	4	9.76E-06
Building Construction		1.38E-02	4.58E-03	PB	4	3.52E-04
Pool Excavation		4.10E-04	1.00E-04	Pool	12	3.25E-06
Pool Construction			2.56E-03	Pool	12	1.63E-05
Arch Coating			4.00E-05	PB	4	7.65E-07
Paving			1.50E-04	PB and SP	8	1.43E-06

MP	2.26E-05
SP	2.40E-05
PB	3.85E-04

**Whittier Aquatics Project**

AERMOD Model Construction Emission Source Inputs

Source Name	X UTM	Y UTM	Elevation m	Release Ht m	Temp K	Velocity m/s	Diameter m	Emission Rate g/s	
								Unmitigated	Mitigated
MP11	400330	3759701	49	2.5	533.15	30	0.1	3.90E-04	2.26E-05
MP12	400350	3759721	49	2.5	533.15	30	0.1	3.90E-04	2.26E-05
MP13	400330	3759721	49	2.5	533.15	30	0.1	3.90E-04	2.26E-05
MP14	400350	3759701	49	2.5	533.15	30	0.1	3.90E-04	2.26E-05
MP21	400368	3759691	49	2.5	533.15	30	0.1	3.90E-04	2.26E-05
MP22	400388	3759711	49	2.5	533.15	30	0.1	3.90E-04	2.26E-05
MP23	400368	3759711	49	2.5	533.15	30	0.1	3.90E-04	2.26E-05
MP24	400388	3759691	49	2.5	533.15	30	0.1	3.90E-04	2.26E-05
PB1	400313	3759655	49	2.5	533.15	30	0.1	2.20E-03	3.85E-04
PB2	400333	3759675	49	2.5	533.15	30	0.1	2.20E-03	3.85E-04
PB3	400313	3759675	49	2.5	533.15	30	0.1	2.20E-03	3.85E-04
PB4	400333	3759655	49	2.5	533.15	30	0.1	2.20E-03	3.85E-04
PP1	400345	3759644	49	2.5	533.15	30	0.1	4.15E-04	2.40E-05
PP2	400365	3759664	49	2.5	533.15	30	0.1	4.15E-04	2.40E-05
PP3	400345	3759664	49	2.5	533.15	30	0.1	4.15E-04	2.40E-05
PP4	400365	3759644	49	2.5	533.15	30	0.1	4.15E-04	2.40E-05

## Whittier Aquatics Project

Operations TACs Emissions and HRA Inputs

### Assumptions

- 1) Emissions factors are from SCAQMD 2016.
- 2) X/Q are from SCAQMD 2017.
- 3) Hourly fuel use assumes full load operation (~6,000,000 Btu/hour), annual SCF/year fuel use provided by County estimate (~26% average load).

TAC	EF lb/MMBtu	Cancer/Chronic			Acute	
		lb/year	ton/year	Conc. ug/m3	lb/hr	Conc. ug/m3
Benzene	0.008	1.08E-01	5.42E-05	9.37E-05	4.71E-05	2.48E-03
Formaldehyde	0.017	2.30E-01	1.15E-04	1.99E-04	1.00E-04	5.27E-03
Total PAHs (excluding naphthalene)	0.0001	1.35E-03	6.77E-07	1.17E-06	5.88E-07	3.10E-05
Naphthalene	0.0003	4.06E-03	2.03E-06	3.51E-06	1.76E-06	9.30E-05
Acetaldehyde	0.0043	5.82E-02	2.91E-05	5.04E-05	2.53E-05	1.33E-03
Acrolein	0.0027	3.66E-02	1.83E-05	3.16E-05	1.59E-05	8.37E-04
Ammonia	3.2	4.33E+01	2.17E-02	3.75E-02	1.88E-02	9.92E-01
Ethyl Benzene	0.0095	1.29E-01	6.43E-05	1.11E-04	5.59E-05	2.95E-03
Hexane	0.0063	8.53E-02	4.27E-05	7.38E-05	3.71E-05	1.95E-03
Toluene	0.0366	4.96E-01	2.48E-04	4.29E-04	2.15E-04	1.14E-02
Xylene	0.0272	3.68E-01	1.84E-04	3.19E-04	1.60E-04	8.44E-03

13,542,745 SCF/year

1.73 X/Q

52.72 X/Q