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# 1. Basic Project Information

# 1.1. Basic Project Information

Data Field	Value
Project Name	Idyllwild Water District Project
Construction Start Date	1/1/2025
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	37.4
Location	33.75612010622501, -116.70268801705897
County	Riverside-Salton Sea
City	Unincorporated
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5548
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

# 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
User Defined Linear	0.13	Mile	0.34	0.00	_	—	_	—

## 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title	
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling	
Construction	C-10-A	Water Exposed Surfaces	

\* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

# 2. Emissions Summary

# 2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Daily, Winter (Max)	_	_	_	_	—	—	—
Unmit.	1.13	10.3	10.2	0.02	7.19	3.82	1,866
Mit.	1.13	10.3	10.2	0.02	3.19	1.77	1,866
% Reduced	—	—	_	_	56%	54%	_
Average Daily (Max)	_	_	_	_	—	_	_
Unmit.	0.08	0.69	0.94	< 0.005	0.20	0.10	169
Mit.	0.08	0.69	0.94	< 0.005	0.11	0.06	169
% Reduced	—	—	_	_	44%	41%	_
Annual (Max)	_	_	_	_	—	_	_
Unmit.	0.01	0.13	0.17	< 0.005	0.04	0.02	28.1
Mit.	0.01	0.13	0.17	< 0.005	0.02	0.01	28.1
% Reduced	_	_	_	_	44%	41%	_
Exceeds (Daily Max)	_	_	_	_	—	_	_
Threshold	75.0	100	550	150	150	55.0	_
Unmit.	No	No	No	No	No	No	_
Mit.	No	No	No	No	No	No	_

Exceeds (Average Daily)		_	—	—	—	—	_
Threshold	75.0	100	550	150	150	55.0	—
Unmit.	No	No	No	No	No	No	_
Mit.	No	No	No	No	No	No	—

## 2.2. Construction Emissions by Year, Unmitigated

#### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—
2025	1.13	10.3	10.2	0.02	7.19	3.82	1,866
Average Daily	—	—	—	—	—	—	—
2025	0.08	0.69	0.94	< 0.005	0.20	0.10	169
Annual	—	—	—	—	—	—	—
2025	0.01	0.13	0.17	< 0.005	0.04	0.02	28.1

## 2.3. Construction Emissions by Year, Mitigated

Year	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
Daily - Winter (Max)	—	—	—	—	—	—	—
2025	1.13	10.3	10.2	0.02	3.19	1.77	1,866
Average Daily	—	—	—	—	—	—	—
2025	0.08	0.69	0.94	< 0.005	0.11	0.06	169
Annual	—	—	—	—	—	—	—
2025	0.01	0.13	0.17	< 0.005	0.02	0.01	28.1

# 3. Construction Emissions Details

# 3.1. Linear, Grubbing & Land Clearing (2025) - Unmitigated

Location	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	1.07	10.2	9.42	0.02	0.44	0.41	1,674
Dust From Material Movement	—	_	_	_	6.55	3.37	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.20	0.18	< 0.005	0.01	0.01	32.1
Dust From Material Movement	_				0.13	0.06	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	5.32
Dust From Material Movement	_	_	_	_	0.02	0.01	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	—	—	—	—	_	_
Daily, Summer (Max)	_	—	—	—	—	_	_
Daily, Winter (Max)	_	—	—	—	—	_	_
Worker	0.06	0.08	0.81	0.00	0.20	0.05	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	3.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	_
Worker	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# 3.2. Linear, Grubbing & Land Clearing (2025) - Mitigated

Location	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	_	—	—	—	_	_
Off-Road Equipment	1.07	10.2	9.42	0.02	0.44	0.41	1,674
Dust From Material Movement	—	_			2.56	1.31	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	_	—	—	—	_	_
Off-Road Equipment	0.02	0.20	0.18	< 0.005	0.01	0.01	32.1
Dust From Material Movement	_	_	_	_	0.05	0.03	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	_	—	—	—	_	_
Off-Road Equipment	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	5.32
Dust From Material Movement	—	_	_	_	0.01	< 0.005	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—						—

Daily, Summer (Max)							_
Daily, Winter (Max)	—	—	—	—	_	_	—
Worker	0.06	0.08	0.81	0.00	0.20	0.05	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—						—
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	3.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—			—
Worker	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# 3.3. Linear, Grading & Excavation (2025) - Unmitigated

Location	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.66	5.76	7.51	0.01	0.26	0.24	1,127
Dust From Material Movement	—	_			0.53	0.06	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.22	0.29	< 0.005	0.01	0.01	43.2
Dust From Material Movement	—	—		—	0.02	< 0.005	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual				_	—		—
Off-Road Equipment	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	7.15
Dust From Material Movement	_	_	_	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	—	—	—	—	—
Daily, Summer (Max)	_	_	_	—	—	—	—
Daily, Winter (Max)	_	_		—	—	—	—
Worker	0.06	0.08	0.81	0.00	0.20	0.05	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	—	—		—
Worker	< 0.005	< 0.005	0.04	0.00	0.01	< 0.005	7.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# 3.4. Linear, Grading & Excavation (2025) - Mitigated

Location	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.66	5.76	7.51	0.01	0.26	0.24	1,127
Dust From Material Movement	—	—	—	_	0.21	0.02	

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—		_		—	_	
Off-Road Equipment	0.03	0.22	0.29	< 0.005	0.01	0.01	43.2
Dust From Material Movement		—	—	—	0.01	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	_	—	_	—	—	_
Off-Road Equipment	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	7.15
Dust From Material Movement		_	_	_	< 0.005	< 0.005	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	_	—	_	—	—	_
Daily, Summer (Max)	—	_	_	_	—	_	_
Daily, Winter (Max)	—	_	_	_	—	_	_
Worker	0.06	0.08	0.81	0.00	0.20	0.05	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	_	_	_	—	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.01	< 0.005	7.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	_	_	_	—	_	_
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# 3.5. Linear, Drainage, Utilities, & Sub-Grade (2025) - Unmitigated

Location	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	_	_	_	_	_	_	_
Daily, Winter (Max)		_	_	_		_	_
Off-Road Equipment	0.58	5.05	7.05	0.01	0.20	0.19	1,086
Dust From Material Movement	—	—	_	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	0.27	< 0.005	0.01	0.01	41.6
Dust From Material Movement	_	_	_	_	< 0.005	< 0.005	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	6.89
Dust From Material Movement	_	_	_	_	< 0.005	< 0.005	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	_	—	_	—	_	—	_
Daily, Winter (Max)	_	—	_	—	_	—	_
Worker	0.06	0.08	0.81	0.00	0.20	0.05	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.41	0.09	< 0.005	0.10	0.03	357
Average Daily	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.01	< 0.005	7.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	13.7
Annual	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.30

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.27

# 3.6. Linear, Drainage, Utilities, & Sub-Grade (2025) - Mitigated

Location	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	0.58	5.05	7.05	0.01	0.20	0.19	1,086
Dust From Material Movement				—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	_	_	—	—
Off-Road Equipment	0.02	0.19	0.27	< 0.005	0.01	0.01	41.6
Dust From Material Movement	—	—	—	_	< 0.005	< 0.005	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	0.05	< 0.005	< 0.005	< 0.005	6.89
Dust From Material Movement	_	_		_	< 0.005	< 0.005	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	0.06	0.08	0.81	0.00	0.20	0.05	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.41	0.09	< 0.005	0.10	0.03	357

Average Daily	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.01	< 0.005	7.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	13.7
Annual	_	_	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	< 0.005	< 0.005	1.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.27

# 3.7. Linear, Paving (2025) - Unmitigated

Location	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	_	_	—	_	_	_
Daily, Winter (Max)	—	_	_	—	_	_	_
Off-Road Equipment	0.23	2.54	4.20	0.01	0.09	0.09	647
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	_	_	—	_	_	_
Off-Road Equipment	< 0.005	0.05	0.08	< 0.005	< 0.005	< 0.005	12.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	_	_	—	_	_	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.06
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	_	—
Daily, Summer (Max)	—	_	_	—	_	_	—
Daily, Winter (Max)	—	_	_	—	_	_	_
Worker	0.06	0.08	0.81	0.00	0.20	0.05	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.16	0.04	< 0.005	0.04	0.01	143
Average Daily	_	_	—	_	_	—	_
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	3.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.74
Annual	_	_	—	_	_	—	_
Worker	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.45

# 3.8. Linear, Paving (2025) - Mitigated

Location	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Onsite	—	—	—	—	—	_	_
Daily, Summer (Max)	—	—	—	—	—	_	_
Daily, Winter (Max)	—	—	—	—	—	_	_
Off-Road Equipment	0.23	2.54	4.20	0.01	0.09	0.09	647
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	_	_
Off-Road Equipment	< 0.005	0.05	0.08	< 0.005	< 0.005	< 0.005	12.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	_	_
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.06
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	_	_
Daily, Summer (Max)	—	—	—	—	—		
Daily, Winter (Max)	—	—	—	—	—	_	_
Worker	0.06	0.08	0.81	0.00	0.20	0.05	192

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.16	0.04	< 0.005	0.04	0.01	143
Average Daily	—	—	_	—	—	_	—
Worker	< 0.005	< 0.005	0.02	0.00	< 0.005	< 0.005	3.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.74
Annual	—	—	_	—	_	_	—
Worker	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.45

# 4. Operations Emissions Details

## 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

#### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

#### 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Land Use ROG NOx CO SO2 PM10T	PM2.5T CC	O2e
-------------------------------	-----------	-----

Daily, Summer (Max)		_	_	_	_	_	_
Total	_	—	—	—	—	—	—
Daily, Winter (Max)	_	—	—	—	—	—	—
Total	_	—	—	—	—	—	—
Annual	_	—	—	—	—	—	—
Total		_	—	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	_	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	_	—	—	—
Subtotal	—	—	—	_	—	—	—
Removed	—	—	—	_	—	—	—
Subtotal	—	—	—	_	—	—	—
—	—	—	—	_	—	—	—
Daily, Winter (Max)	—	—	—	_	—	—	—
Avoided	—	—	—	_	—	—	—
Subtotal	—	—	—	_	—	—	—
Sequestered	—	—	—	_	—	—	—
Subtotal	—	—	—	_	—	—	—
Removed	—	—	—	_	—	—	—
Subtotal	—	—	—	_	—	—	—
—	—	—	—	_	—	—	—
Annual	—	—	—	_	—	—	—
Avoided	—	—	—	—	—	—	—

Subtotal	_		_	_	—	_	_
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	_	—	—	—	—	—
Subtotal	—	_	—	—	—	—	—
—	_		—	—	—	—	—

#### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

#### Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	_
Daily, Winter (Max)	—	—	—	—	—	—	_
Total	—	—	—	—	—	—	_
Annual	—	—	—	—	—	—	_
Total	_	_	_		_		_

#### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Land Use	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	_	_	_	_	_	_	—

#### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	ROG	NOx	со	SO2	PM10T	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal		—		—	—	—	—
Sequestered	_	_	—	_	_	—	—
Subtotal	_	_	_	_	_	—	—
Removed	_	_	—	_	_	—	—
Subtotal	_	_	_	—	—	—	—
	_	_	—	_	_	—	—
Daily, Winter (Max)	_	_	_	_	_	—	—
Avoided	_	_	_	_	_	—	—
Subtotal	_	_	_	_	_	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed							
Subtotal							
	_	_		_	_	_	_

# 5. Activity Data

## 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Linear, Grubbing & Land Clearing	Linear, Grubbing & Land Clearing	1/1/2025	1/9/2025	5.00	7.00	—
Linear, Grading & Excavation	Linear, Grading & Excavation	1/10/2025	1/29/2025	5.00	14.0	—
Linear, Drainage, Utilities, & Sub-Grade	Linear, Drainage, Utilities, & Sub-Grade	1/30/2025	2/18/2025	5.00	14.0	—
Linear, Paving	Linear, Paving	2/19/2025	2/27/2025	5.00	7.00	_

# 5.2. Off-Road Equipment

## 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grubbing & Land Clearing	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Grubbing & Land Clearing	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Linear, Grading & Excavation	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Grading & Excavation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	4.00	33.0	0.73
Linear, Drainage, Utilities, & Sub-Grade	Forklifts	Diesel	Average	1.00	4.00	82.0	0.20
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	93.0	0.40

Linear, Drainage, Utilities, & Sub-Grade	Other Material Handling Equipment	Diesel	Average	1.00	8.00	93.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Other Material Handling Equipment	Diesel	Average	1.00	8.00	93.0	0.40

# 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Linear, Grubbing & Land Clearing	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Grubbing & Land Clearing	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Linear, Grading & Excavation	Graders	Diesel	Average	1.00	8.00	148	0.41
Linear, Grading & Excavation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Linear, Grading & Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Linear, Grading & Excavation	Concrete/Industrial Saws	Diesel	Average	1.00	4.00	33.0	0.73
Linear, Drainage, Utilities, & Sub-Grade	Forklifts	Diesel	Average	1.00	4.00	82.0	0.20
Linear, Drainage, Utilities, & Sub-Grade	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	93.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Other Material Handling Equipment	Diesel	Average	1.00	8.00	93.0	0.40
Linear, Drainage, Utilities, & Sub-Grade	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Linear, Drainage, Utilities, & Sub-Grade	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74

Linear, Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Linear, Paving	Other Material Handling Equipment	Diesel	Average	1.00	8.00	93.0	0.40

# 5.3. Construction Vehicles

## 5.3.1. Unmitigated

Phase Name	Тгір Туре	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	15.0	18.5	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	10.2	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	_		HHDT
Linear, Grading & Excavation	_	—	_	—
Linear, Grading & Excavation	Worker	15.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	0.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	—	_	HHDT
Linear, Drainage, Utilities, & Sub-Grade				
Linear, Drainage, Utilities, & Sub-Grade	Worker	15.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	5.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck			HHDT
Linear, Paving	_	_	_	_
Linear, Paving	Worker	15.0	18.5	LDA,LDT1,LDT2

Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	2.00	20.0	HHDT
Linear, Paving	Onsite truck	_	_	HHDT

# 5.3.2. Mitigated

Phase Name	Тгір Туре	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Linear, Grubbing & Land Clearing	—	—	—	—
Linear, Grubbing & Land Clearing	Worker	15.0	18.5	LDA,LDT1,LDT2
Linear, Grubbing & Land Clearing	Vendor	0.00	10.2	HHDT,MHDT
Linear, Grubbing & Land Clearing	Hauling	0.00	20.0	HHDT
Linear, Grubbing & Land Clearing	Onsite truck	_	_	HHDT
Linear, Grading & Excavation	_	_	_	_
Linear, Grading & Excavation	Worker	15.0	18.5	LDA,LDT1,LDT2
Linear, Grading & Excavation	Vendor	0.00	10.2	HHDT,MHDT
Linear, Grading & Excavation	Hauling	0.00	20.0	HHDT
Linear, Grading & Excavation	Onsite truck	_		HHDT
Linear, Drainage, Utilities, & Sub-Grade				
Linear, Drainage, Utilities, & Sub-Grade	Worker	15.0	18.5	LDA,LDT1,LDT2
Linear, Drainage, Utilities, & Sub-Grade	Vendor	0.00	10.2	HHDT,MHDT
Linear, Drainage, Utilities, & Sub-Grade	Hauling	5.00	20.0	HHDT
Linear, Drainage, Utilities, & Sub-Grade	Onsite truck			HHDT
Linear, Paving	_	—	—	-
Linear, Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Linear, Paving	Vendor	0.00	10.2	HHDT,MHDT
Linear, Paving	Hauling	2.00	20.0	HHDT

Linear, Paving	Onsite truck	_	_	HHDT

#### 5.4. Vehicles

#### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

#### 5.5. Architectural Coatings

Phase Name	Residential Interior Area	Residential Exterior Area	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	Coated (sq ft)	

#### 5.6. Dust Mitigation

#### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Linear, Grubbing & Land Clearing			0.34	0.00	_
Linear, Grading & Excavation	_		0.34	0.00	_
Linear, Drainage, Utilities, & Sub-Grade	80.0		0.34	0.00	—

#### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Linear	0.34	50%

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005

## 5.18. Vegetation

#### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
5.18.1.2. Mitigated			

# Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

#### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres
--

#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acre	S
5.18.2. Sequestration			
5.18.2.1. Unmitigated			
Тгее Туре	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

#### 5.18.2.2. Mitigated

(btu/year)

Tree	ЭТуре	Number	Electricity Saved (kWh/year)	Natural Gas Save

# 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.4	annual days of extreme heat
Extreme Precipitation	10.9	annual days with precipitation above 20 mm
Sea Level Rise		meters of inundation depth
Wildfire	41.4	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

#### 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

# Idyllwild Water District Project Detailed Report, 10/15/2024

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	93.9
AQ-PM	4.62
AQ-DPM	0.52
Drinking Water	94.7
Lead Risk Housing	28.7
Pesticides	0.00
Toxic Releases	7.81
Traffic	2.08
Effect Indicators	
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	16.6
Impaired Water Bodies	0.00
Solid Waste	91.2
Sensitive Population	
Asthma	25.0
Cardio-vascular	56.0
Low Birth Weights	97.8
Socioeconomic Factor Indicators	
Education	
Housing	37.5
Linguistic	19.9
Poverty	26.0
Unemployment	_

# 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	
Above Poverty	77.76209419
Employed	35.14692673
Median HI	55.75516489
Education	_
Bachelor's or higher	79.39176184
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	
Auto Access	77.83908636
Active commuting	60.46451944
Social	
2-parent households	68.95932247
Voting	77.27447709
Neighborhood	
Alcohol availability	86.70601822
Park access	56.08879764
Retail density	6.775311177
Supermarket access	60.16938278
Tree canopy	91.87732581
Housing	
Homeownership	65.03272167
Housing habitability	84.83254202
Low-inc homeowner severe housing cost burden	72.65494675
Low-inc renter severe housing cost burden	77.5439497
Uncrowded housing	66.03361992
Health Outcomes	_

Insured adults	38.36776594
Arthritis	0.0
Asthma ER Admissions	51.0
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	67.0
Cognitively Disabled	39.7
Physically Disabled	76.0
Heart Attack ER Admissions	11.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	
Wildfire Risk	91.7
SLR Inundation Area	0.0
Children	88.7
Elderly	2.2

English Speaking	98.1
Foreign-born	1.2
Outdoor Workers	65.0
Climate Change Adaptive Capacity	
Impervious Surface Cover	99.3
Traffic Density	0.8
Traffic Access	23.0
Other Indices	
Hardship	30.0
Other Decision Support	
2016 Voting	97.4

## 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	29.0
Healthy Places Index Score for Project Location (b)	77.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state. b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

#### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Project proposes to replace an existing diversion structure and pipeline system. Assumes a 2 month build out.
Construction: Off-Road Equipment	Construction requires the excavation and removal of an existing pipeline, pipe line replacement, and paving.
Construction: Paving	Half of the project improvement area will be paved with asphalt.
Construction: Trips and VMT	Hauling trips include transporting pipeline materials, and paving materials including asphalt.