# Yeager Well Replacement Project Detailed Report

#### Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
- 3. Construction Emissions Details
  - 3.1. Site Preparation (2024) Unmitigated
  - 3.3. Grading (2024) Unmitigated
  - 3.5. Well Drilling/Construction (2024) Unmitigated
- 4. Operations Emissions Details
  - 4.10. Soil Carbon Accumulation By Vegetation Type
    - 4.10.1. Soil Carbon Accumulation By Vegetation Type Unmitigated

- 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type Unmitigated
- 4.10.3. Avoided and Sequestered Emissions by Species Unmitigated
- 5. Activity Data
  - 5.1. Construction Schedule
  - 5.2. Off-Road Equipment
    - 5.2.1. Unmitigated
  - 5.3. Construction Vehicles
    - 5.3.1. Unmitigated
  - 5.4. Vehicles
    - 5.4.1. Construction Vehicle Control Strategies
  - 5.5. Architectural Coatings
  - 5.6. Dust Mitigation
    - 5.6.1. Construction Earthmoving Activities
    - 5.6.2. Construction Earthmoving Control Strategies
  - 5.7. Construction Paving
  - 5.8. Construction Electricity Consumption and Emissions Factors
  - 5.18. Vegetation

- 5.18.1. Land Use Change
  - 5.18.1.1. Unmitigated
- 5.18.1. Biomass Cover Type
  - 5.18.1.1. Unmitigated
- 5.18.2. Sequestration
  - 5.18.2.1. Unmitigated
- 6. Climate Risk Detailed Report
  - 6.1. Climate Risk Summary
  - 6.2. Initial Climate Risk Scores
  - 6.3. Adjusted Climate Risk Scores
  - 6.4. Climate Risk Reduction Measures
- 7. Health and Equity Details
  - 7.1. CalEnviroScreen 4.0 Scores
  - 7.2. Healthy Places Index Scores
  - 7.3. Overall Health & Equity Scores
  - 7.4. Health & Equity Measures
  - 7.5. Evaluation Scorecard

- 7.6. Health & Equity Custom Measures
- 8. User Changes to Default Data

## 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Yeager Well Replacement Project
Construction Start Date	4/1/2024
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	14.2
Location	34.05078891153899, -116.57299733787416
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5145
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)		Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	16.9	1000sqft	0.39	0.00	0.00	0.00	_	_

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

No measures selected

## 2. Emissions Summary

## 2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.23	11.4	11.9	0.02	0.53	0.10	0.63	0.49	0.02	0.51	_	2,058	2,058	0.08	0.02	0.44	2,065
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.30	2.78	3.39	0.01	0.12	< 0.005	0.12	0.11	< 0.005	0.11	_	586	586	0.02	0.01	< 0.005	588
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.05	0.51	0.62	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	_	97.1	97.1	< 0.005	< 0.005	< 0.005	97.4

## 2.2. Construction Emissions by Year, Unmitigated

Year	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	1.23	11.4	11.9	0.02	0.53	0.10	0.63	0.49	0.02	0.51	_	2,058	2,058	0.08	0.02	0.44	2,065
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.30	2.78	3.39	0.01	0.12	< 0.005	0.12	0.11	< 0.005	0.11	_	586	586	0.02	0.01	< 0.005	588
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.05	0.51	0.62	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	_	97.1	97.1	< 0.005	< 0.005	< 0.005	97.4

## 3. Construction Emissions Details

## 3.1. Site Preparation (2024) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		4.60	5.56	0.01	0.24	_	0.24	0.22	_	0.22	_	858	858	0.03	0.01	_	861
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.06	0.08	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	11.8	11.8	< 0.005	< 0.005	_	11.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.95	1.95	< 0.005	< 0.005	_	1.95

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	_	_	_	-	_	_	-	_	_	_	_	_	_
Worker	0.03	0.03	0.45	0.00	0.00	0.07	0.07	0.00	0.02	0.02	_	74.5	74.5	< 0.005	< 0.005	0.29	75.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	-
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.93	0.93	< 0.005	< 0.005	< 0.005	0.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	<u> </u>	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

## 3.3. Grading (2024) - Unmitigated

		(	, ,						<i>J</i> ,								
Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily,	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Summer (Max)																	

Off-Road Equipment	1.19	11.4	10.7	0.02	0.53	_	0.53	0.49	_	0.49	_	1,713	1,713	0.07	0.01	_	1,719
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.01	0.06	0.06	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	9.39	9.39	< 0.005	< 0.005	_	9.42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	1.55	1.55	< 0.005	< 0.005	_	1.56
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-
Worker	0.04	0.04	0.68	0.00	0.00	0.10	0.10	0.00	0.02	0.02	_	112	112	< 0.005	< 0.005	0.44	113
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	-
Average Daily	_	_	_	_	_	_	_	_	_	_	-	_	-	_	_	_	-
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.56	0.56	< 0.005	< 0.005	< 0.005	0.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Annual	_	_	-	_	_	_	_	_	<u> </u>	_	_	_	_	_	<u> </u>	_	_
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

## 3.5. Well Drilling/Construction (2024) - Unmitigated

Circitati					, arra Cr	Ì										
ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
	9.66	11.9	0.02	0.41	_	0.41	0.38	_	0.38	_	2,050	2,050	0.08	0.02	_	2,057
_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	2.65	3.25	0.01	0.11	_	0.11	0.10	_	0.10	_	562	562	0.02	< 0.005	_	564
_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
t i	ROG 1.05 0.00 0.29	ROG         NOx           —         —           1.05         9.66           —         —           0.00         0.00           —         —           0.29         2.65           —         —	ROG         NOX         CO           —         —         —           —         —         —           1.05         9.66         11.9           —         —         —           0.00         0.00         0.00           —         —         —           0.29         2.65         3.25           —         —         —	ROG         NOX         CO         SO2           —         —         —           —         —         —           1.05         9.66         11.9         0.02           —         —         —           0.00         0.00         0.00         0.00           —         —         —           0.29         2.65         3.25         0.01           —         —         —	ROG         NOX         CO         SO2         PM10E           —         —         —         —           —         —         —         —           1.05         9.66         11.9         0.02         0.41           —         —         —         —           0.00         0.00         0.00         0.00         0.00           —         —         —         —           0.29         2.65         3.25         0.01         0.11           —         —         —         —	ROG         NOX         CO         SO2         PM10E         PM10D           —         —         —         —         —           —         —         —         —         —           1.05         9.66         11.9         0.02         0.41         —           —         —         —         —         < 0.005	ROG         NOX         CO         SO2         PM10E         PM10D         PM10T           —         —         —         —         —         —           —         —         —         —         —         —           1.05         9.66         11.9         0.02         0.41         —         0.41           —         —         —         —         <	ROG         NOX         CO         SO2         PM10E         PM10D         PM10T         PM2.5E           —         —         —         —         —         —         —           1.05         9.66         11.9         0.02         0.41         —         0.41         0.38           —         —         —         —          <0.005	ROG         NOx         CO         SO2         PM10E         PM10D         PM10T         PM2.5E         PM2.5D           —         —         —         —         —         —         —         —           —         —         —         —         —         —         —         —           1.05         9.66         11.9         0.02         0.41         —         0.41         0.38         —           —         —         —         —         < 0.005	ROG         NOX         CO         SO2         PM10E         PM10D         PM10T         PM2.5E         PM2.5D         PM2.5T           —	-       -	ROG         NOX         CO         SO2         PM10E         PM10D         PM10T         PM2.5E         PM2.5D         PM2.5T         BCO2         NBCO2           -	ROG         NOX         CO         SO2         PM10E         PM10D         PM2.5E         PM2.5D         PM2.5T         BCO2         NBCO2         CO2T           —	ROG         NOX         CO         SO2         PM10E         PM10D         PM10T         PM2.5E         PM2.5D         PM2.5T         BCO2         NBCO2         CO2T         CH4           —         <	ROG         NOX         CO         SO2         PM10E         PM10D         PM2.5E         PM2.5D         PM2.5T         BCO2         NBCO2         CO2T         CH4         N2O           — </td <td>ROG         NOX         CO         SO2         PM10E         PM10D         PM10T         PM2.5E         PM2.5D         PM2.5T         BCO2         NBCO2         CO2T         CH4         N2O         R           —         <td< td=""></td<></td>	ROG         NOX         CO         SO2         PM10E         PM10D         PM10T         PM2.5E         PM2.5D         PM2.5T         BCO2         NBCO2         CO2T         CH4         N2O         R           — <td< td=""></td<>

Annual	_	_	_	_	_	_	_	_	<u> </u>	_	_			_	_	_	_
Off-Road Equipment	0.05 t	0.48	0.59	< 0.005	0.02	_	0.02	0.02	_	0.02	_	93.0	93.0	< 0.005	< 0.005	-	93.3
Dust From Material Movement	_	_	_	_	_	< 0.005	< 0.005	_	< 0.005	< 0.005	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	7.66	7.66	< 0.005	< 0.005	0.02	8.04
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	-	_	_	-	_	-	-	_	_	_	_	_	_	-	_	_
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	2.10	2.10	< 0.005	< 0.005	< 0.005	2.20
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.35	0.35	< 0.005	< 0.005	< 0.005	0.36

# 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)

Vegetatio n	ROG		CO					PM2.5E			BCO2	NBCO2	CO2T	CH4	N2O	R	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	со				PM10T					NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

				ton/yr fo													
Species	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequeste red	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	<u> </u>	_	_	<u> </u>	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequeste red	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequeste red	_	_	_	_	_	_	-	_		_	-	_	_	_	_	_	_

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
Site Preparation	Site Preparation	4/1/2024	4/5/2024	5.00	5.00	_
Grading	Grading	4/6/2024	4/9/2024	5.00	2.00	_
Well Drilling/Construction	Building Construction	4/10/2024	8/27/2024	5.00	100	_

## 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
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	6.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	6.00	367	0.40
Grading	Tractors/Loaders/Backh oes	Diesel	Average	1.00	7.00	84.0	0.37
Well Drilling/Construction	Cranes	Diesel	Average	1.00	4.00	367	0.29
Well Drilling/Construction	Forklifts	Diesel	Average	2.00	6.00	82.0	0.20

Well Drilling/Construction	Tractors/Loaders/Backh	Diesel	Average	2.00	8.00	84.0	0.37
Well Drilling/Construction	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Well Drilling/Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Well Drilling/Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Well Drilling/Construction	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

## 5.3. Construction Vehicles

## 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	5.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	_	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	7.50	18.5	LDA,LDT1,LDT2
Grading	Vendor	_	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Well Drilling/Construction	_	_	_	_
Well Drilling/Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Well Drilling/Construction	Vendor	0.00	10.2	HHDT,MHDT
Well Drilling/Construction	Hauling	0.11	20.0	HHDT

Vell Drilling/Construction 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 Coated	Residential Exterior Area Coated	Non-Residential Interior Area	Non-Residential Exterior Area	Parking Area Coated (sq ft)
	(sq ft)	(sq ft)	Coated (sq ft)	Coated (sq ft)	

## 5.6. Dust Mitigation

#### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Well Drilling/Construction	_	85.0	0.00	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
Other Non-Asphalt Surfaces	0.39	0%

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	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. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type Number Electricity Saved (kWh/year) Natural Gas Saved (btu/year)

## 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	34.2	annual days of extreme heat
Extreme Precipitation	1.80	annual days with precipitation above 20 mm
Sea Level Rise	_	meters of inundation depth
Wildfire	20.5	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. The four scenarios are: No rise, 0.5 meter, 1.41 meters

Wildfire data are 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	5	0	0	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	0	0	0	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	5	1	1	4
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	1	1	1	2
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.

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	93.6
AQ-PM	2.58
AQ-DPM	3.75
Drinking Water	58.9
Lead Risk Housing	28.4
Pesticides	0.00
Toxic Releases	3.96
Traffic	46.3
Effect Indicators	
CleanUp Sites	0.00

Groundwater	22.1
Haz Waste Facilities/Generators	0.00
Impaired Water Bodies	0.00
Solid Waste	75.7
Sensitive Population	_
Asthma	70.3
Cardio-vascular	72.8
Low Birth Weights	37.6
Socioeconomic Factor Indicators	_
Education	32.6
Housing	15.9
Linguistic	12.3
Poverty	68.8
Unemployment	51.3

## 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	25.18927242
Employed	40.65186706
Median HI	12.31874759
Education	_
Bachelor's or higher	31.46413448
High school enrollment	100
Preschool enrollment	71.06377518
Transportation	_

Auto Access	48.80020531
Active commuting	37.55934813
Social	_
2-parent households	8.943924034
Voting	65.81547543
Neighborhood	_
Alcohol availability	80.72629283
Park access	46.50327217
Retail density	7.25009624
Supermarket access	2.399589375
Tree canopy	2.784550237
Housing	_
Homeownership	70.46066983
Housing habitability	43.7058899
Low-inc homeowner severe housing cost burden	84.37058899
Low-inc renter severe housing cost burden	1.62966765
Uncrowded housing	85.268831
Health Outcomes	_
Insured adults	29.71897857
Arthritis	0.0
Asthma ER Admissions	42.8
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         1.7           Cognitively Disabled         2.6           Physically Disabled         2.5           Heart Attack ER Admissions         5.9           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         9.9           Pedestrian Injuries         9.9           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         5.2           SL I Inundation Area         0.0           Children         9.2
Physically Disabled         2.5           Heart Attack ER Admissions         5.9           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         8.9           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         5.1           SLR Inundation Area         0.0           Children         9.2
Heart Attack ER Admissions         5.9           Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         98.9           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            Vildfire Risk         52.1           SLR Inundation Area         0.0           Children         92.2
Mental Health Not Good         0.0           Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         98.9           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         52.1           SLR Inundation Area         0.0           Children         92.2
Chronic Kidney Disease         0.0           Obesity         0.0           Pedestrian Injuries         98.9           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         52.1           SLR Inundation Area         0.0           Children         92.2
Obesity         0.0           Pedestrian Injuries         98.9           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         52.1           SLR Inundation Area         0.0           Children         92.2
Pedestrian Injuries         98.9           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         52.1           SLR Inundation Area         0.0           Children         99.2
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         52.1           SLR Inundation Area         0.0           Children         92.2
Stroke 0.0 Health Risk Behaviors
Health Risk Behaviors  Binge Drinking  Current Smoker  No Leisure Time for Physical Activity  Climate Change Exposures  Wildfire Risk  SLR Inundation Area  Children  Children  Change Exposures  Climate Change Exposures  Description of the properties of the propert
Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 5.1 SLR Inundation Area 0.0 Children 9.2 Children 9.2
Current Smoker 0.0  No Leisure Time for Physical Activity 0.0  Climate Change Exposures —  Wildfire Risk 52.1  SLR Inundation Area 0.0  Children 99.2
No Leisure Time for Physical Activity  Climate Change Exposures  Wildfire Risk  SLR Inundation Area  Children  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0
Climate Change Exposures — Wildfire Risk 52.1 SLR Inundation Area 0.0 Children 92.2
Wildfire Risk 52.1 SLR Inundation Area 0.0 Children 92.2
SLR Inundation Area 0.0 Children 92.2
Children 92.2
Elderly 8.4
English Speaking 84.7
Foreign-born 11.6
Outdoor Workers 6.6
Climate Change Adaptive Capacity —
Impervious Surface Cover 91.0
Traffic Density 28.5
Traffic Access 23.0
Other Indices —

Hardship	62.2
Other Decision Support	_
2016 Voting	76.7

#### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	28.0
Healthy Places Index Score for Project Location (b)	33.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
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.

#### 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	Site Preparation and Grading phases to account for vegetation removal, leveling of ground, and temporary gravel for the site.
Construction: Off-Road Equipment	Equipment added for well drilling
Construction: Dust From Material Movement	85 cubic yards of soil export during well drilling

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.