
Appendix D-2

Health Risk Assessment

**Double Butte
Construction HRA**

Project Construction Emissions

Year	Without MM	Year	With MM
	DPM tons/year		DPM tons/year
2023	0.53060	2023	0.18890
2024	0.18730	2024	0.08490
Total	0.718	Total	0.274
Total Lbs	1435.800	Total Lbs	547.600
Lbs/hour	0.690	Lbs/hour	0.263

MEIR Risk	With APMs	MEIR Risk	With APMs
Cancer (persons in a million)	7.59140	Cancer (persons in a million)	2.90
Chronic	0.0085	Chronic	0.00275

0.0210

Conversions:

1 ton = 2,000 lb

Construction = 8 hours/day
 2080 hours/year
 260 days/year
 12 months

Project Construction: 260 active days
 1.00 years

AERMOD Assumptions

Source Name	Description	No. of Vol. Sources	Emission Rate g/s	Release Height m	Plume Height m	Plume Width m
CONALL	Off-Road Equipment and Trucks	43	1.00	5.00	10.00	10.00

Receptors

Grid Sizes	Spacing
Discrete	Nearest Sensitive Receptors

Meteorological Data

Station Name	Years	Lat	Long	Elev (m)
PERI	2017-2021	33.7889	-117.2278	442

http://www.aqmd.gov/docs/default-source/air-quality/meteorological-data/met-data-information/2017FinalMetStationList_101317.pdf?sfvrsn=6

Other Model Assumption

Rural or Urban	Rural
Urban Grp Pop	N/A
Terrain Data	NED 1
Lakes Version	11.2.0
AERMOD Version	22112

