

Rule 1200 Health Risk Assessment

Facility Name: Advanced Environmental Group, Inc.
Facility ID: APCD2024-SITE-04466
Application: APCD2024-APP-008116
Project Engineer: John Lee
Modeler: Bill Reeve
Toxics Risk Analyst: Stephen Amberg
Date Submitted to Toxics: 3/4/2024
Date Completed by Toxics: 3/12/2024
HRA Tools Used: Lakes-AERMOD (Version 23132)/ HARP2 (v22118)

The following estimated risks are valid only for the input data provided by the Project Engineer.

Estimated worker risk does not exceed the residential risk. Therefore, only Residential risk is presented in the following results.

Estimated Risk Levels:

Maximum Individual Cancer Risk (Resident)	58.1 in one million
Chronic Noncancer Health Hazard Index (Resident)	= 0.117
8-Hour Noncancer Health Hazard Index (Worker)	= NA*
Acute Health Hazard Index (*PMI)	= 0.0117

*Point of Maximum Impact

Input Data Provided by Project Engineer:

Type of Source: Soil Vapor Extraction

Worst-Case TAC Emissions Increase:

Each Unit

Toxic Air Contaminant	Hourly Emission Rate (lb/hr)	Annual Emission Rate (lb/yr)
1,1,1 - Trichloroethane	1.23E-06	1.08E-02
1,4 - Dioxane	1.05E-06	9.21E-03
2-Butanone (MEK)	3.16E-06	2.76E-02
Benzene	3.86E-06	3.38E-02
Carbon Disulfide	3.10E-06	2.71E-02
Chloroform	2.69E-06	2.35E-02
Ethylbenzene	5.84E-06	5.12E-02
Hexane, (n-Hexane)	5.14E-06	4.51E-02
Isopropyl Alcohol	3.80E-06	3.33E-02
Xylenes (mixed isomers)	2.63E-05	2.30E-01
Methylene Chloride	2.22E-06	1.95E-02
Toluene	1.58E-04	1.38E+00
Tetrachloroethene (PCE)	1.61E-01	1.41E+03

Release Parameters:

Stack Height (ft)	14.5
Stack Diameter (ft)	.17
Temperature deg F	70
Exhaust Flow Rate (acfm)	115

Discussion

The HRA was conducted in accordance with EPA and OEHHA guidance and District standard procedures. A point source was modeled with refined air dispersion modeling using EPA’s AERMOD model, AERMET (Version 22112) processed McClellan Palomar 2019-2021 ustar updated meteorology data, AERMAP terrain processing, and rural

dispersion coefficients. Building downwash effects were calculated using the EPA BPIP-Prime model. The receptor grid was sufficiently dense to identify maximum impacts.

These risk results are based on the risk scenario calculations and health data at the time of the review, and should not be scaled with revised emissions rates without consulting with the Toxics Section.

*HARP - HRACalc v22118 3/12/2024 11:03:03 AM - Cancer Risk

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	RISK_SUM	SCENARIO
1	STCK1		71556	1,1,1-TCA	3.13E-05	0.00E+00	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
2	STCK1		123911	1,4-Dioxan	2.68E-05	4.90E-10	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
3	STCK1		78933	MEK	8.04E-05	0.00E+00	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
4	STCK1		71432	Benzene	9.83E-05	6.65E-09	0.01% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
5	STCK1		75150	CS2	7.89E-05	0.00E+00	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
6	STCK1		67663	Chloroforr	6.85E-05	8.81E-10	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
7	STCK1		100414	Ethyl Benz	0.000149	8.77E-10	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
8	STCK1		110543	Hexane	0.000131	0.00E+00	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
9	STCK1		67630	Isopropyl A	9.68E-05	0.00E+00	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
10	STCK1		1330207	Xylenes	0.00067	0.00E+00	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
11	STCK1		75092	Methylene	5.66E-05	1.34E-10	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
12	STCK1		108883	Toluene	0.00402	0.00E+00	0.00% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70
13	STCK2		127184	Perc	4.09	5.81E-05	99.98% 30YrCancerRMP_InhSoilDermMMilk_FAH16to70

*HARP - HRACalc v22118 3/12/2024 11:03:03 AM - Chronic Risk


INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	KIDNEY	SCENARIO
1	STCK1		71556	1,1,1-TCA	3.13E-05	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
2	STCK1		123911	1,4-Dioxan	2.68E-05	8.93E-09	NonCancerChronicDerived_InhSoilDermMMilk
3	STCK1		78933	MEK	8.04E-05	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
4	STCK1		71432	Benzene	9.83E-05	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
5	STCK1		75150	CS2	7.89E-05	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
6	STCK1		67663	Chloroforr	6.85E-05	2.28E-07	NonCancerChronicDerived_InhSoilDermMMilk
7	STCK1		100414	Ethyl Benz	0.000149	7.45E-08	NonCancerChronicDerived_InhSoilDermMMilk
8	STCK1		110543	Hexane	0.000131	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
9	STCK1		67630	Isopropyl A	9.68E-05	1.38E-08	NonCancerChronicDerived_InhSoilDermMMilk
10	STCK1		1330207	Xylenes	0.00067	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
11	STCK1		75092	Methylene	5.66E-05	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
12	STCK1		108883	Toluene	0.00402	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
13	STCK2		127184	Perc	4.09	1.17E-01	NonCancerChronicDerived_InhSoilDermMMilk

*HARP - HRACalc v22118 3/12/2024 11:03:03 AM - Acute Risk

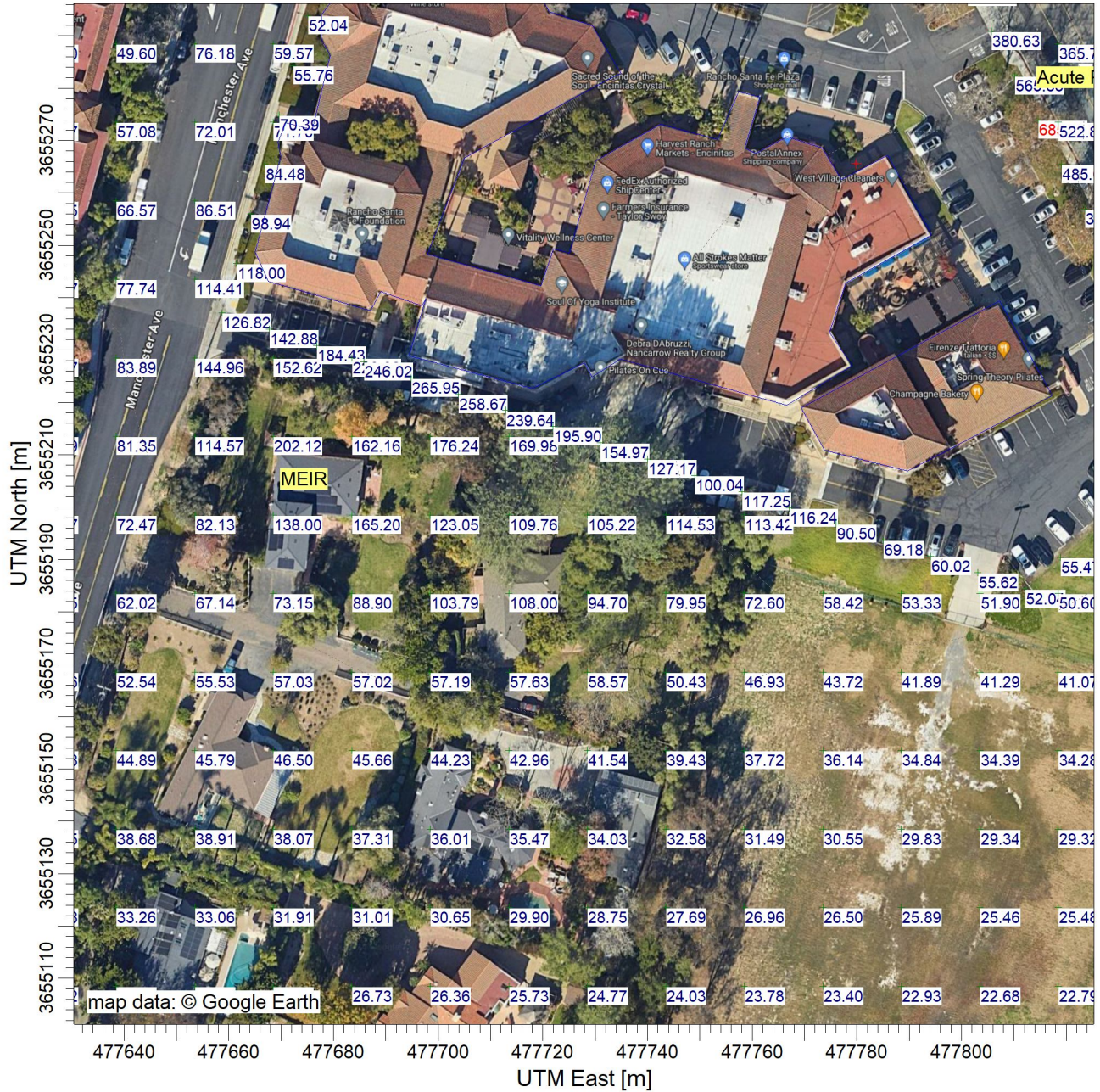
INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	RESP	SCENARIO
1	STCK1		71556	1,1,1-TCA	0.00178	0.00E+00	NonCancerAcute
2	STCK1		123911	1,4-Dioxan	0.00153	5.10E-07	NonCancerAcute
3	STCK1		78933	MEK	0.00459	3.53E-07	NonCancerAcute
4	STCK1		71432	Benzene	0.00561	0.00E+00	NonCancerAcute
5	STCK1		75150	CS2	0.0045	0.00E+00	NonCancerAcute
6	STCK1		67663	Chloroforr	0.00391	2.61E-05	NonCancerAcute
7	STCK1		100414	Ethyl Benz	0.0085	0.00E+00	NonCancerAcute
8	STCK1		110543	Hexane	0.00748	0.00E+00	NonCancerAcute
9	STCK1		67630	Isopropyl A	0.00552	1.73E-06	NonCancerAcute
10	STCK1		1330207	Xylenes	0.0382	1.74E-06	NonCancerAcute
11	STCK1		75092	Methylene	0.00323	0.00E+00	NonCancerAcute
12	STCK1		108883	Toluene	0.229	4.58E-05	NonCancerAcute
13	STCK2		127184	Perc	233	1.17E-02	NonCancerAcute

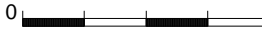
APP-008116
hourly x/q



COMMENTS:	SOURCES:		
		1	
	RECEPTORS:		
		17925	
	OUTPUT TYPE:	SCALE:	1:2,570
	Concentration	0  0.05 km	
	MAX:		PROJECT NO.:
	11529 ug/m^3		

APP-008116
annual x/q



COMMENTS:	SOURCES:	1	
	RECEPTORS:	17925	
	OUTPUT TYPE:	SCALE:	1:1,226
	MAX:	0  0.04 km	
			PROJECT NO.:

ANNUAL DISPERSION FACTOR ($\mu\text{g}/\text{m}^3$)/(g/s): 202.12 Maximum Resident Receptor
 ANNUAL DISPERSION FACTOR ($\mu\text{g}/\text{m}^3$)/(g/s): 225.35 Maximum Worker Receptor
 HOURLY DISPERSION FACTOR ($\mu\text{g}/\text{m}^3$)/(g/s): 11528.65 Maximum Acute Receptor

Pollutant Name	CAS	Hourly	Annual	Hourly	Annual	Hourly	Annual	Annual
		(lb/hr)	(lb/yr)	(g/s)	(g/s)	GLC ($\mu\text{g}/\text{m}^3$)	Resident GLC ($\mu\text{g}/\text{m}^3$)	Worker GLC ($\mu\text{g}/\text{m}^3$)
1,1,1 - Trichloroethane	71556	1.23E-06	1.08E-02	1.55E-07	1.55E-07	1.78E-03	3.13E-05	3.49E-05
1,4 - Dioxane	123911	1.05E-06	9.21E-03	1.33E-07	1.33E-07	1.53E-03	2.68E-05	2.99E-05
2-Butanone (MEK)	78933	3.16E-06	2.76E-02	3.98E-07	3.98E-07	4.59E-03	8.04E-05	8.97E-05
Benzene	71432	3.86E-06	3.38E-02	4.86E-07	4.86E-07	5.61E-03	9.83E-05	1.10E-04
Carbon Disulfide	75150	3.10E-06	2.71E-02	3.91E-07	3.91E-07	4.50E-03	7.89E-05	8.80E-05
Chloroform	67663	2.69E-06	2.35E-02	3.39E-07	3.39E-07	3.91E-03	6.85E-05	7.64E-05
Ethylbenzene	100414	5.84E-06	5.12E-02	7.37E-07	7.37E-07	8.50E-03	1.49E-04	1.66E-04
Hexane, (n-Hexane)	110543	5.14E-06	4.51E-02	6.49E-07	6.49E-07	7.48E-03	1.31E-04	1.46E-04
Isopropyl Alcohol	67630	3.80E-06	3.33E-02	4.79E-07	4.79E-07	5.52E-03	9.68E-05	1.08E-04
Xylenes (mixed isomers)	1330207	2.63E-05	2.30E-01	3.32E-06	3.32E-06	3.82E-02	6.70E-04	7.47E-04
Methylene Chloride	75092	2.22E-06	1.95E-02	2.80E-07	2.80E-07	3.23E-03	5.66E-05	6.31E-05
Toluene	108883	1.58E-04	1.38E+00	1.99E-05	1.99E-05	2.29E-01	4.02E-03	4.48E-03
Tetrachloroethene (PCE)	127184	1.61E-01	1.41E+03	2.02E-02	2.02E-02	2.33E+02	4.09E+00	4.56E+00

SAN DIEGO AIR POLLUTION CONTROL DISTRICT

**SUPPLEMENTAL APPLICATION
INFORMATION
RULE 1200
TOXICS EVALUATION**

San Diego APCD Use Only
Appl. No.:
ID No.:

(ALL REQUESTED INFORMATION IS IMPORTANT - PLEASE COMPLETE FULLY)

1 **FACILITY NAME:** 160 - 162 Rancho Santa Fe Road, Encinitas CA 92024

2 **RELEASE POINT DATA** (Examples of commonly encountered release points: the tip of an exhaust stack, a
3 roof vent, an open window, an outdoor area or volume)

4 How are the emissions from this device released into the outdoor air? Check One
5 Exhaust Stack or Duct Unducted Vent Released Through Windows or Doors
6 Undirected Emissions (Anything other than the above categories)

7 If emissions are from a stack or a duct, check off the direction of flow. Vertical (Up)
8 Horizontal Other (**Describe**): _____

9 If there is an obstruction to vertical flow, is the obstruction a: Rain Cap
10 Flapper-Type Valve (Open when there is flow) Other (**Describe**): _____

11 **Volume Source:** If emissions are from a volume source, describe how the emitted gases, vapors, and/or particles
12 get into the air and either the size of the opening (example - 3 ft x 4 ft window) that results in release or the
13 approximate size of the release zone (example - paint spraying, 2' x 2' x 2' bread boxes): _____

14 SVE system Exhaust duct - Duct diameter is 0.17 feet

15 _____
16 Lateral dimension (ft): _____ Vertical dimension (ft): _____

17 Please provide the following **STACK** or **RELEASE POINT** information (where applicable):

Parameter	Emission Point #1	Emission Point #2	Emission Point #3
Height of release above ground (ft)	14.5		
Stack Diameter (ft)	0.17		
Exhaust Gas Temperature* (°F)	70		
Exhaust Gas Flow (acfm or fps)	115		
Distance to Property Line (+/- 10 ft)	130		

* Use "70 °F" or "Ambient" if unknown

18 **FACILITY SITE MAP, PLOT PLAN, and RELEASE POINT INFORMATION**

19 Please provide a map showing the geographic location of your facility.

20 Please also provide a **facility plot plan** showing the location of emission release point(s) at the facility, property
21 lines, and the location (include approximate distance) and dimensions of buildings (estimated height, width, and
22 length) closer than 100 ft from the release point.

23 Where is the subject release point located with respect to onsite buildings? Check Any Applicable

24 On top of a building: Building Height _____ ft Width _____ ft Length _____ ft
25 On the side of a building: Diameter of Opening 0.17 ft or Size of Opening _____ ft X _____ ft
26 Adjacent to a building: Building Height _____ ft Width _____ ft Length _____ ft

HARP2 - HRACalc (dated 22118) 3/12/2024 11:03:03 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02

Soil mixing depth (m): 0.01

Dermal climate: Warm

TIER 2 SETTINGS

Tier2 not used.

Calculating cancer risk

Cancer risk saved to: D:\1200\8116_Advanced\RAST\Resident_CancerRisk.csv

Calculating chronic risk

Chronic risk saved to: D:\1200\8116_Advanced\RAST\Resident_NCChronicRisk.csv

Calculating acute risk

Acute risk saved to: D:\1200\8116_Advanced\RAST\Resident_NCAcuteRisk.csv

HRA ran successfully

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.10000E+01	477779.9	3655265.6	14.2	4.42	294.26	25.74	0.05	YES	NO	HOR	

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * Option for Capped & Horiz Stacks Selected With:

0 Capped Stack(s); and 1 Horizontal Stack(s)
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* CCVR_Sub - Meteorological data includes CCVR substitutions
* TEMP_Sub - Meteorological data includes TEMP substitutions
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 17925 Receptor(s)

with: 1 POINT(s), including
0 POINTCAP(s) and 1 POINTHOR(s)
and: 0 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 22112

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 100.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: C:\AERMET\AERMET 21112 PROJECTS\AERMET 22112 data\McClellanPalomar_2019_2021_v22 Met Version: 22112
 Profile file: C:\AERMET\AERMET 21112 PROJECTS\AERMET 22112 data\McClellanPalomar_2019_2021_v22
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 3177 Upper air station no.: 3190
 Name: UNKNOWN Name: UNKNOWN
 Year: 2019 Year: 2019

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
19	01	01	1	01	-6.7	0.101	-9.000	-9.000	-999.	77.	13.9	0.03	0.93	1.00	1.57	25.	7.9	280.3	2.0			
19	01	01	1	02	-8.6	0.115	-9.000	-9.000	-999.	94.	15.9	0.03	0.93	1.00	1.79	35.	7.9	279.8	2.0			
19	01	01	1	03	-16.3	0.162	-9.000	-9.000	-999.	156.	28.8	0.03	0.93	1.00	2.45	31.	7.9	279.2	2.0			
19	01	01	1	04	-8.4	0.114	-9.000	-9.000	-999.	93.	15.6	0.03	0.93	1.00	1.77	41.	7.9	278.1	2.0			
19	01	01	1	05	-13.0	0.143	-9.000	-9.000	-999.	129.	22.4	0.03	0.93	1.00	2.18	30.	7.9	279.2	2.0			
19	01	01	1	06	-12.3	0.139	-9.000	-9.000	-999.	124.	21.2	0.03	0.93	1.00	2.10	24.	7.9	278.8	2.0			
19	01	01	1	07	-13.6	0.146	-9.000	-9.000	-999.	134.	23.5	0.03	0.93	1.00	2.20	6.	7.9	279.8	2.0			
19	01	01	1	08	-15.9	0.231	-9.000	-9.000	-999.	267.	69.9	0.03	0.93	0.50	3.42	40.	7.9	280.9	2.0			
19	01	01	1	09	30.2	0.206	0.499	0.005	148.	225.	-26.1	0.03	0.93	0.29	2.61	41.	7.9	283.1	2.0			
19	01	01	1	10	77.6	0.226	0.818	0.005	254.	258.	-13.4	0.03	0.93	0.22	2.67	7.	7.9	284.8	2.0			
19	01	01	1	11	110.3	0.226	1.328	0.005	763.	257.	-9.4	0.03	0.93	0.20	2.57	17.	7.9	286.4	2.0			
19	01	01	1	12	125.8	0.231	1.462	0.005	892.	267.	-8.8	0.03	0.93	0.19	2.62	2.	7.9	287.0	2.0			
19	01	01	1	13	123.8	0.281	1.512	0.005	1004.	358.	-16.1	0.03	0.93	0.19	3.35	353.	7.9	287.5	2.0			
19	01	01	1	14	104.6	0.245	1.470	0.005	1090.	292.	-12.7	0.03	0.93	0.20	2.88	7.	7.9	288.8	2.0			
19	01	01	1	15	68.4	0.246	1.295	0.005	1142.	293.	-19.6	0.03	0.93	0.23	3.07	64.	7.9	288.8	2.0			
19	01	01	1	16	18.1	0.311	0.835	0.005	1153.	416.	-149.4	0.03	0.93	0.32	4.29	87.	7.9	287.0	2.0			
19	01	01	1	17	-24.0	0.270	-9.000	-9.000	-999.	337.	79.9	0.03	0.93	0.60	3.93	114.	7.9	285.3	2.0			
19	01	01	1	18	-6.3	0.099	-9.000	-9.000	-999.	106.	13.6	0.03	0.93	1.00	1.53	116.	7.9	283.8	2.0			
19	01	01	1	19	-6.7	0.101	-9.000	-9.000	-999.	78.	14.0	0.03	0.93	1.00	1.57	98.	7.9	282.0	2.0			
19	01	01	1	20	-3.4	0.072	-9.000	-9.000	-999.	47.	10.0	0.03	0.93	1.00	1.11	98.	7.9	279.8	2.0			
19	01	01	1	21	-5.6	0.092	-9.000	-9.000	-999.	67.	12.5	0.03	0.93	1.00	1.43	25.	7.9	279.8	2.0			
19	01	01	1	22	-7.2	0.105	-9.000	-9.000	-999.	81.	14.3	0.03	0.93	1.00	1.64	39.	7.9	279.2	2.0			
19	01	01	1	23	-16.3	0.161	-9.000	-9.000	-999.	155.	28.5	0.03	0.93	1.00	2.44	49.	7.9	279.2	2.0			
19	01	01	1	24	-25.8	0.257	-9.000	-9.000	-999.	312.	72.5	0.03	0.93	1.00	3.83	69.	7.9	280.3	2.0			

First hour of profile data

YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
19 01 01 01 7.9 1 25. 1.57 280.4 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 23132 *** C:\Modeling Projects\8116_Rancho_Santa_Fe\8116_Rancho_Santa_Fe.isc ***
*** AERMET - VERSION 22112 ***

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (26304 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS 685.64186 AT (477814.63, 3655273.92,	13.54, 83.50,	0.00)	DC
	2ND HIGHEST VALUE IS 565.87692 AT (477810.14, 3655282.39,	14.09, 83.50,	0.00)	DC
	3RD HIGHEST VALUE IS 522.87250 AT (477818.50, 3655273.50,	13.29, 83.50,	0.00)	DC
	4TH HIGHEST VALUE IS 484.99973 AT (477819.12, 3655265.45,	13.25, 83.50,	0.00)	DC
	5TH HIGHEST VALUE IS 380.63461 AT (477805.66, 3655290.86,	14.18, 83.50,	0.00)	DC
	6TH HIGHEST VALUE IS 365.78594 AT (477818.50, 3655288.50,	13.75, 83.50,	0.00)	DC
	7TH HIGHEST VALUE IS 326.30713 AT (477823.60, 3655256.98,	12.86, 83.50,	0.00)	DC
	8TH HIGHEST VALUE IS 325.57827 AT (477833.50, 3655273.50,	12.92, 83.40,	0.00)	DC
	9TH HIGHEST VALUE IS 281.80882 AT (477833.50, 3655288.50,	13.54, 83.40,	0.00)	DC
	10TH HIGHEST VALUE IS 279.26321 AT (477801.17, 3655299.33,	14.88, 83.50,	0.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 23132 *** C:\Modeling Projects\8116_Rancho_Santa_Fe\8116_Rancho_Santa_Fe.isc ***
*** AERMET - VERSION 22112 ***

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH	1ST HIGH VALUE IS 11528.65328	ON 21082702: AT (477801.17, 3655299.33, 14.88, 83.50, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

▲ *** AERMOD - VERSION 23132 *** C:\Modeling Projects\8116_Rancho_Santa_Fe\8116_Rancho_Santa_Fe.isc *** 03/11/24
*** AERMET - VERSION 22112 *** *** *** 15:30:09
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL ADJ_U*

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1272 Informational Message(s)

A Total of 26304 Hours Were Processed

A Total of 701 Calm Hours Identified

A Total of 571 Missing Hours Identified (2.17 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****

ME W186	98	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	98	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

Facility Site Map - Plot Plan

Plot Plan with Release Point Information

- Legend**
- 160 S Rancho Santa Fe Rd
 - Approximate Property Line
 - Emission Point - SVE Exhaust Duct



Amberg, Stephen

From: Reeve, Bill
Sent: Monday, March 11, 2024 3:43 PM
To: Amberg, Stephen; Bernabe, Andrew; Canter, Adam; DiFulvio, Jaime; Galvez, Maria; Nguyen, Tony; Ossowski, Peter; Swaney, Jim; Wong, Benjamin
Cc: Lee, John
Subject: FW: HRA request: APCD2024-APP-008116, EXPEDIATED
Attachments: app-008116_rule1200form.pdf; closest_receptor.png; closest_receptor_outside_propertyBoundaryt.png; closest_residential_building.png; closest_schoolBuilding.png; exhaust_diagram.png; plotplan.jpg; app-008116_Rule1200_generictoxics_112023 (1).xlsx; [External] RE: Soil Remediation Application - SVE System - 160-162 South Rancho Santa Fe Road, Encinitas CA***Duty Engineer*** - Application ID APCD2024-APP-008116

Follow Up Flag: Follow up
Flag Status: Flagged

I have completed the modeling for Rancho Santa Fe APP 8116. The zipped modeling files are in [8116 Advanced](#) This App is EXPEDITED.

-Bill

Bill Reeve
Associate Meteorologist
San Diego County Air Pollution Control District
Bill.Reeve@sdapcd.org
O 858-586-2773 M 858-945-3732
<http://www.sdapcd.org>
10124 Old Grove Rd, San Diego CA, 92131

From: Lee, John <John.Lee@sdapcd.org>
Sent: Monday, March 4, 2024 4:08 PM
To: Reeve, Bill <Bill.Reeve@sdapcd.org>; Nguyen, Tony <Tony.Nguyen2@sdapcd.org>
Cc: Canter, Adam <Adam.Canter@sdapcd.org>; DiFulvio, Jaime <Jaime.DiFulvio@sdapcd.org>; Swaney, Jim <Jim.Swaney@sdapcd.org>
Subject: RE: HRA request: APCD2024-APP-008116, EXPEDIATED

Hello Bill and Tony,

Here is an HRA request. Please have the modeler post the results in [Engineering - 8116 Advanced - All Documents \(sharepoint.com\)](#)

Couple things:

1. This is an expediated application.
2. Exhaust diagram is based on how the applicant described in the email (see attached).
 - a. Exhaust stack is fitted with a T, 0.17" diameter.
3. I asked for a photo of the exhaust, if you want to wait for it.
4. There is a school, The Rhoads School, within 1,000 ft of the source.

Let me know if you need more information.

Thank you,

John L.