Rule 1200 Health Risk Assessment

Facility Name:	VA San Diego Healthcare
Facility ID:	APCD1978-SITE-01521
Application:	APCD2026-APP-009105
Project Engineer:	Austin Stein
Modeler:	Bill Reeve
Toxics Risk Analyst:	Andrew Bernabe
Date Completed by Toxics:	7/21/2026
HRA Tools Used:	Lakes-AERMOD (Version 22112)/HARP (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)	0.11 in one million
Chronic Noncancer Health Hazard Index (Resident)	= 3.06E-05
8-Hour Noncancer Health Hazard Index (Worker)	= NA*
Acute Health Hazard Index (**PMI)	= 3.82E-02

*8-Hour Non-Cancer Health Hazard Index is only applicable when calculating worker risk
**Point of Maximum Impact

The proposed application is for a stationary diesel emergency engine. The ARB Air Toxics Control Measure (ATCM) limits non-emergency operations to 50 hours per year.

Input Data Provided by Project Engineer:

Type of Source: Emergency Diesel IC Engine.
Controls Description: None.

Worst-Case TAC Emissions Increase:

Toxic Air Contaminant	Hourly Emission Rate (lb/hr)	Annual Emission Rate (lb/yr)
DIESEL PARTICULATE	n/a	6.08E-02
ACETALDEHYDE	3.13E-03	1.56E-01
ACROLEIN	1.35E-04	6.77E-03
ARSENIC COMPOUNDS	6.39E-06	3.20E-04
BENZENE	7.44E-04	3.72E-02
BUTADIENE, 1,3-	8.67E-04	4.34E-02
CADMIUM AND COMPOUNDS	5.99E-06	3.00E-04
CHLOROBENZENE	7.99E-07	4.00E-05
CHROMIUM (HEXAVALENT)	4.00E-07	2.00E-05
COPPER AND COMPOUNDS	1.64E-05	8.19E-04
ETHYL BENZENE	4.36E-05	2.18E-03
FORMALDEHYDE	6.90E-03	3.45E-01
HEXANE-N	1.07E-04	5.37E-03
HYDROCHLORIC ACID	7.44E-04	3.72E-02
LEAD & COMPOUNDS	3.32E-05	1.66E-03
MANGANESE AND COMPOUNDS	1.24E-05	6.19E-04
MERCURY AND COMPOUNDS	7.99E-06	4.00E-04
NAPHTHALENE	7.87E-05	3.94E-03
NICKEL AND NICKEL COMPOUNDS	1.56E-05	7.79E-04
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for HRA]	1.45E-04	7.23E-03
PROPYLENE	1.87E-03	9.33E-02
SELENIUM AND COMPOUNDS	8.79E-06	4.40E-04
TOLUENE	4.21E-04	2.11E-02
XYLENES	1.69E-04	8.47E-03

Source: Acute TACs – Ventura County, 5/17/01.

Diesel particulate exhaust is a surrogate for all toxic air contaminant annual emissions from diesel-fueled engines when determining the potential cancer risk and noncancer chronic hazard index. Speciated toxic air contaminant hourly emissions are used when determining the potential noncancer acute hazard index.

Process Data:

Operation Parameter	Value
Fuel Consumption (gal/hr):	4.00
Diesel Particulate Emission Factor (g/hp-hr):	0.00746
Brake Horsepower (hp):	74
Annual Hours of Operation (hrs):	50

Release Parameters:

Height of release above ground (ft)	10.0
Stack Diameter (or length x width) (ft)	0.25
Exhaust Gas Temperature (°F)	900
Exhaust Gas Flow (ACFM)	230

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 Kearny Villa Road 2020/2022 updated meteorology data, AERMAP terrain processing, and urban 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.

Cancer Risk

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM
1	Engine		9901	DieselExhP	0.000153	1.14E-07

Chronic

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	SCENARIO	RESP
1	Engine		9901	DieselExhP	0.000153	NonCancer	3.06E-05

Acute

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	SCENARIO	EYE
1	Engine		9901	DieselExhP	0	NonCancer	0.00E+00
2	Engine		75070	Acetaldehy	0.641	NonCancer	1.36E-03
3	Engine		107028	Acrolein	0.0278	NonCancer	1.11E-02
4	Engine		7440382	Arsenic	0.00131	NonCancer	0.00E+00
5	Engine		71432	Benzene	0.153	NonCancer	0.00E+00
6	Engine		106990	1,3-Butadi	0.178	NonCancer	0.00E+00
7	Engine		7440439	Cadmium	0.00123	NonCancer	0.00E+00
8	Engine		108907	Chloroben	0.000164	NonCancer	0.00E+00
9	Engine		18540299	Cr(VI)	8.19E-05	NonCancer	0.00E+00
10	Engine		7440508	Copper	0.00336	NonCancer	0.00E+00
11	Engine		100414	Ethyl Benz	0.00893	NonCancer	0.00E+00
12	Engine		50000	Formaldeh	1.41	NonCancer	2.56E-02
13	Engine		110543	Hexane	0.022	NonCancer	0.00E+00
14	Engine		7647010	HCl	0.153	NonCancer	7.29E-05
15	Engine		7439921	Lead	0.0068	NonCancer	0.00E+00
16	Engine		7439965	Manganes	0.00254	NonCancer	0.00E+00
17	Engine		7439976	Mercury	0.00164	NonCancer	0.00E+00
18	Engine		91203	Naphthale	0.0161	NonCancer	0.00E+00
19	Engine		7440020	Nickel	0.00319	NonCancer	0.00E+00
20	Engine		1151	PAHs-w/o	0.0296	NonCancer	0.00E+00
21	Engine		115071	Propylene	0.382	NonCancer	0.00E+00
22	Engine		7782492	Selenium	0.0018	NonCancer	0.00E+00
23	Engine		108883	Toluene	0.0863	NonCancer	1.73E-05
24	Engine		1330207	Xylenes	0.0347	NonCancer	1.58E-06
							3.82E-02


UTM East [m]
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487160
487170
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487190
487200
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487220
487230
487240
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3630050
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74.50
69.92
61.54
74.79
94.14
84.92
77.93
67.77
100.94
106.02
99.26
90.56
79.12
115.15
117.64
128.52
144.33
160.47
176.32
188.60
195.15
197.69
194.57
190.52
182.22
167.59
147.81
143.48
130.45
123.37
MEIR
117.94
143.21
171.72
185.74
186.03
175.35
153.78
135.56
123.11
113.82
90.98
95.87
98.34
111.85
130.88
151.91
165.95
173.31
161.28
153.21
132.34
96.49
3578
8884
8916
82.95
67.85
65.72
82.16
117.09
156.00
175.87
177.95
164.18
118.72
100.04
78.92
59.29
50.60
62.90
91.67
124.67
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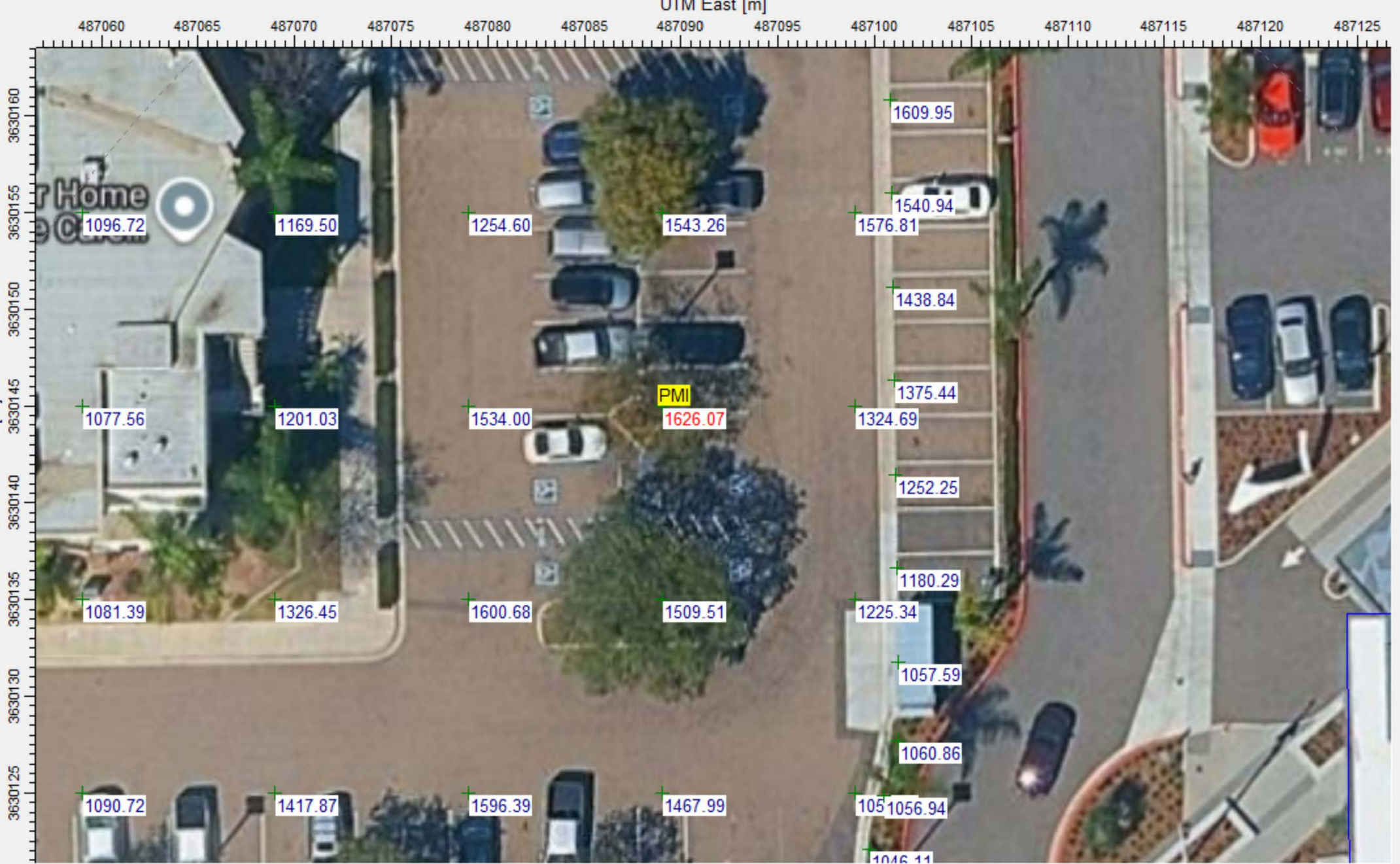
147.66
122.58
104.92
97.76
Ediwhar Ave
Haveteur Way
Haveteur Way
Haveteur Way
Haveteur Way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1225.34
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1056.94
1077.56
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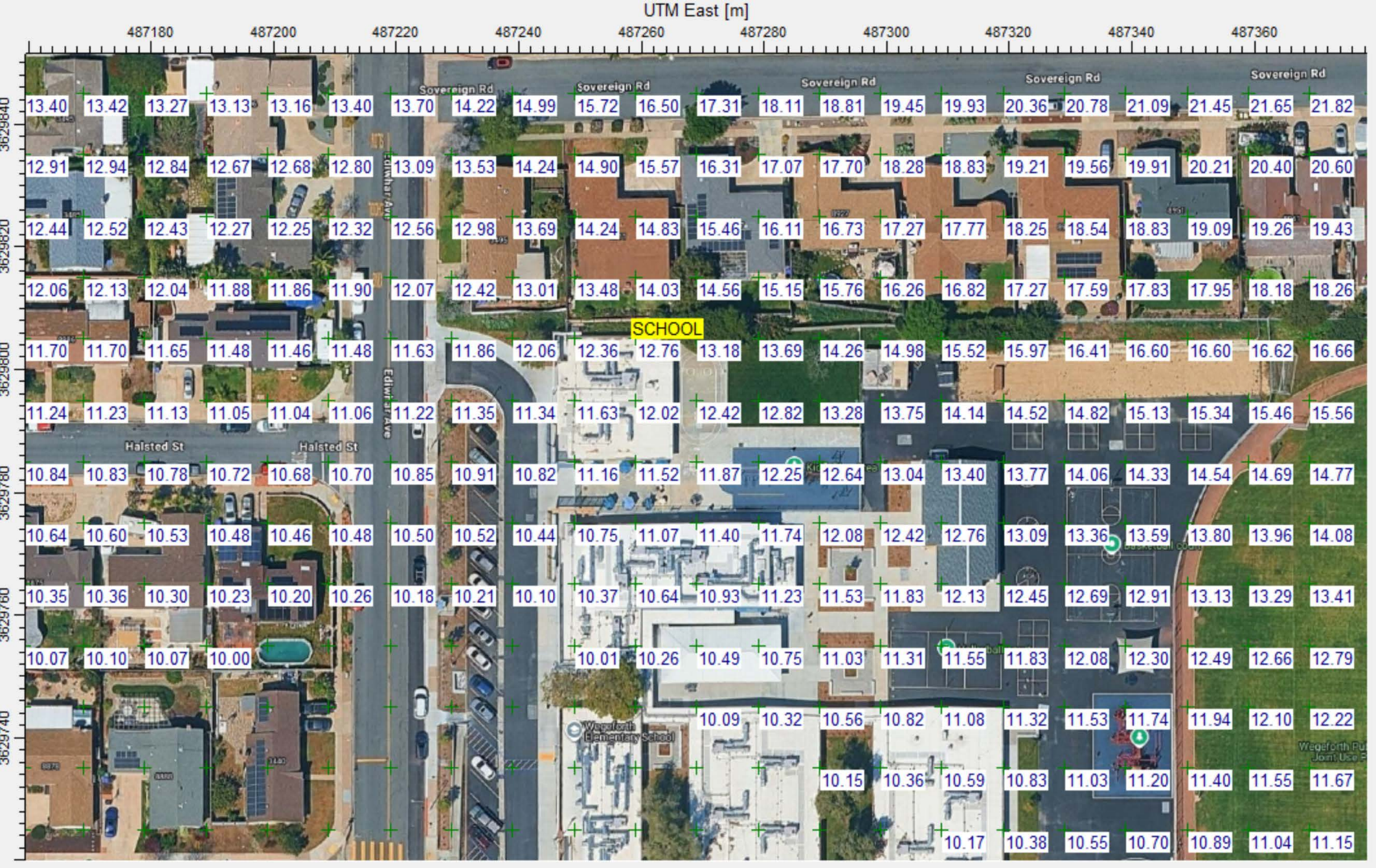
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3629780
3629760
3629740
Sovereign Rd
Sovereign Rd
Sovereign Rd
Sovereign Rd
Sovereign Rd
Edinwhar Ave
Edinwhar Ave
Halsted St
Halsted St
SCHOOL
Wagoforth Elementary School
13.40 13.42 13.27 13.13 13.16 13.40 13.70 14.22 14.99 15.72 16.50 17.31 18.11 18.81 19.45 19.93 20.36 20.78 21.09 21.45 21.65 21.82
12.91 12.94 12.84 12.67 12.68 12.80 13.09 13.53 14.24 14.90 15.57 16.31 17.07 17.70 18.28 18.83 19.21 19.56 19.91 20.21 20.40 20.60
12.44 12.52 12.43 12.27 12.25 12.32 12.56 12.98 13.69 14.24 14.83 15.46 16.11 16.73 17.27 17.77 18.25 18.54 18.83 19.09 19.26 19.43
12.06 12.13 12.04 11.88 11.86 11.90 12.07 12.42 13.01 13.48 14.03 14.56 15.15 15.76 16.26 16.82 17.27 17.59 17.83 17.95 18.18 18.26
11.70 11.70 11.65 11.48 11.46 11.48 11.63 11.86 12.06 12.36 12.76 13.18 13.69 14.26 14.98 15.52 15.97 16.41 16.60 16.60 16.62 16.66
11.24 11.23 11.13 11.05 11.04 11.06 11.22 11.35 11.34 11.63 12.02 12.42 12.82 13.28 13.75 14.14 14.52 14.82 15.13 15.34 15.46 15.56
10.84 10.83 10.78 10.72 10.68 10.70 10.85 10.91 10.82 11.16 11.52 11.87 12.25 12.64 13.04 13.40 13.77 14.06 14.33 14.54 14.69 14.77
10.64 10.60 10.53 10.48 10.46 10.48 10.50 10.52 10.44 10.75 11.07 11.40 11.74 12.08 12.42 12.76 13.09 13.36 13.59 13.80 13.96 14.08
10.35 10.36 10.30 10.23 10.20 10.26 10.18 10.21 10.10 10.37 10.64 10.93 11.23 11.53 11.83 12.13 12.45 12.69 12.91 13.13 13.29 13.41
10.07 10.10 10.07 10.00 10.01 10.26 10.49 10.75 11.03 11.31 11.55 11.83 12.08 12.30 12.49 12.66 12.79
10.09 10.32 10.56 10.82 11.08 11.32 11.53 11.74 11.94 12.10 12.22
10.15 10.36 10.59 10.83 11.03 11.20 11.40 11.55 11.67
10.17 10.38 10.55 10.70 10.89 11.04 11.15

FACILITY NAME: VA San Diego Healthcare

Fuel Consumption (gal/hr):	4.00
Diesel Particulate Emission Factor (g/hp-hr):	0.00746
Brake Horsepower (hp):	74
Annual Hours of Operation (hrs):	50
FACILITY ID:	APCD1978-SITE-01521
APPLICATION NO.:	APCD2026-APP-009105
ENGINEER:	**Austin Stein**

RISK ANALYST ONLY

DISPERSION MODELING DATA

Annual Receptor Type:	Resident
ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):	**175.4**
Distance (m):	
Hourly Receptor Type:	PMI
HOURLY DISPERSION FACTOR (µg/m3)/(g/s):	**1626.3**
Distance (m):	

CHEMICAL NAME	Emission Factor lb/1000 gal	Acute Emission Rate lb/hr	Annual Emission Rate lb/yr	Acute Emissions Rate g/s	Annual Emission Rate g/s	Hourly GLC µg/m^3	Annual GLC µg/m^3
DIESEL PARTICULATE			6.08E-02		8.74E-07		1.53E-04
ACETALDEHYDE	7.83E-01	3.13E-03	1.56E-01	3.94E-04		6.41E-01	
ACROLEIN*	3.39E-02	1.35E-04	6.77E-03	1.71E-05		2.78E-02	
ARSENIC COMPOUNDS	1.60E-03	6.39E-06	3.20E-04	8.06E-07		1.31E-03	
BENZENE	1.86E-01	7.44E-04	3.72E-02	9.38E-05		1.53E-01	
BUTADIENE, 1,3-	2.17E-01	8.67E-04	4.34E-02	1.09E-04		0.1776873	
CADMIUM AND COMPOUNDS	1.50E-03	5.99E-06	3.00E-04	7.55E-07		1.23E-03	
CHLOROBENZENE	2.00E-04	7.99E-07	4.00E-05	1.01E-07		1.64E-04	
CHROMIUM (HEXAVALENT)	1.00E-04	4.00E-07	2.00E-05	5.03E-08		8.19E-05	
COPPER AND COMPOUNDS	4.10E-03	1.64E-05	8.19E-04	2.06E-06		3.36E-03	
ETHYL BENZENE	1.09E-02	4.36E-05	2.18E-03	5.49E-06		8.93E-03	
FORMALDEHYDE	1.73E+00	6.90E-03	3.45E-01	8.69E-04		1.41E+00	
HEXANE-N	2.69E-02	1.07E-04	5.37E-03	1.35E-05		2.20E-02	
HYDROCHLORIC ACID	1.86E-01	7.44E-04	3.72E-02	9.38E-05		1.53E-01	
LEAD & COMPOUNDS	8.30E-03	3.32E-05	1.66E-03	4.18E-06		6.80E-03	
MANGANESE AND COMPOUNDS	3.10E-03	1.24E-05	6.19E-04	1.56E-06		2.54E-03	
MERCURY AND COMPOUNDS (INORGANIC)	2.00E-03	7.99E-06	4.00E-04	1.01E-06		1.64E-03	
NAPHTHALENE	1.97E-02	7.87E-05	3.94E-03	9.92E-06		1.61E-02	
NICKEL AND NICKEL COMPOUNDS	3.90E-03	1.56E-05	7.79E-04	1.96E-06		3.19E-03	
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for H	3.62E-02	1.45E-04	7.23E-03	1.82E-05		2.96E-02	
PROPYLENE	4.67E-01	1.87E-03	9.33E-02	2.35E-04		3.82E-01	
SELENIUM AND COMPOUNDS	2.20E-03	8.79E-06	4.40E-04	1.11E-06		1.80E-03	
TOLUENE	1.05E-01	4.21E-04	2.11E-02	5.31E-05		8.63E-02	
XYLENES	4.24E-02	1.69E-04	8.47E-03	2.13E-05		3.47E-02	

Facility Name:	VA San Diego Healthcare
Application Number:	APCD2026-APP-009105
Site ID Number:	APCD1978-SITE-01521
Equipment Address:	3350 La Jolla Village Dr., San Diego, CA 92161
Project Description	Emergency diesel engine, powering mobile CT scanner.
	Multi-location
Project Engineer:	Austin Stein

Make:	John Deere
Model:	3029HG530
S/N:	CD3029U222443
Fuel Type:	Diesel
BHP Rating:	74
Model Year:	2022
Tier Level:	4 FINAL
Engine Family Number:	NJDXL02.9318
Device Driven:	50 kW standby generator powering CT scanner
Emissions Controls:	DOC, P-TOX DPF

	Based on Manufacturer Specs		
NOx, g/BHP-hr:	3.09	4.14	g/kW-hr
CO, g/BHP-hr:	0.00	0.00	g/kW-hr
NMHC, g/BHP-hr:	0.01	0.02	g/kW-hr
PM10, g/BHP-hr:	0.01	0.01	g/kW-hr

NOx, g/BHP-hr: + NMHC, g/BHP-hr: 3.10

Standards for New Stationary Emergency Diesel Fueled Engines		
Rule 69.4.1 Standards:	g/BHP-hr	Pass
NOx	3.50	Yes
CO	3.70	Yes
ATCM Standards	g/BHP-hr	Pass
Nox + NMHC	3.50	Yes
CO	3.70	Yes
PM	0.15	Yes
NSPS IIII	g/BHP-hr	Pass
Nox + NMHC	3.50	Yes
CO	3.70	Yes
PM	0.30	Yes

Fuel Usage, gal/hr:	3.996	gal/bhp-hr 0.054
Operating Schedule, hrs/day:	24	
Operating Schedule, hrs/yr:	50	

Exhaust Flow Rate, cfm:	230	Exhaust flow derived from similar size
Exhaust Temperature, °F:	900	Exhaust temp derived from similar siz
Stack Height above ground, ft:	10.0	
Stack Diameter, ft:	0.3	

Nearest School, ft:				AB3205?
Residential Receptor, m:	25.00		ft	
Occupational Receptor, m:	25.00		ft	Consult Toxics?
Acute Receptor, m:	25.00		ft	

Vertical Exhaust? (yes/no):	Yes
Flapper Valve? (flapper/birdscreen/no cover/raincap/other):	flapper
Plot Plan? (yes/no):	yes
Flow Obstructions:	no

San Diego Air Pollution Control District
Supplemental Application Information
Rule 1200 Toxics Evaluation

(ALL REQUESTED INFORMATION IS IMPORTANT - PLEASE FILL BLUE CELLS)

Facility Name: VA San Diego Healthcare
Equipment Location: 3350 La Jolla Village Dr., San Diego, CA 92161

Project Description:
Control Equipment: None
Operating Schedule: Hours per Day: Weeks per Year:
Days per Week: Days per Year:

RELEASE POINT DATA

How are the emissions from this project released into the outdoor air? (Check all that apply)

Point Source	Non-Point Source		
☒ Exhaust Stack	☐ Passive Ventilation	☐ Released through windows and/or roll-up doors	☐ Fugitive Emissions

Point Source

Parameter	Point Source #1	Point Source #2	Point Source #3
Height of release above ground (ft)	10.0		
Stack Diameter (or length x width) (ft)	0.25		
Exhaust Gas Temperature (°F)[1]	900		
Exhaust Gas Flow (ACFM)	230		
Direction of Flow[2]	vertical		
Flow Obstruction[3]	no		
Distance to Nearest Property Line (+/- 10ft)	0.00		

[1] Use "70 °F" or "Ambient" if unknown
[2] if "other" describe:
[3] if "other" describe:

AERIAL MAP AND FACILITY PLOT PLAN must be attached and labeled with **Release Point(s) and Building(s)**
(includes facility and neighboring buildings within 5x the release height of a point source(s)).

Parameter	Building A	Building B	Building C
Point Source(s)			
Point Source Location			
Building Length (ft) (optional)			
Building Width (ft) (optional)			
Building Height above ground (ft)			

San Diego APCD Use Only

Additional Rule 1200 Submittal Information

Submittal Date:		Site ID:	APCD1978-SITE-01521
Project Engineer:	Austin Stein	Appl. Number(s):	APCD2026-APP-009105
Fees Collected:		PTO No. (if existing):	

HARP2 - HRACalc (dated 22118) 7/21/2026 3:19:12 PM - 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: C:\Users\abernabe\Desktop\9105 VA Hospital\Risk\MEIRCancerRisk.csv
Calculating chronic risk
Chronic risk saved to: C:\Users\abernabe\Desktop\9105 VA Hospital\Risk\MEIRNCChronicRisk.csv
Calculating acute risk
Acute risk saved to: C:\Users\abernabe\Desktop\9105 VA Hospital\Risk\MEIRNCAcuteRisk.csv
HRA ran successfully

```
 *** AERMOD - VERSION 24142  ***   *** D:\Modeling Projects\9105_VA_Aero_Dr\9105_VA_Aero_Dr.isc             ***
       06/18/26
 *** AERMET - VERSION  24142 ***   ***                                                                    ***
      11:36:03

      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - -
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      487169.470  3630057.250      127.300
** Source Parameters **
   SRCPARAM STCK1              1.0     3.048   755.372 23.8024269150585    0.0762

** Building Downwash **
   BUILDHGT STCK1           10.06    10.06    10.06    10.06    10.06    10.06
   BUILDHGT STCK1           10.06    10.06     0.00    10.06    10.06    10.06
   BUILDHGT STCK1           10.06    10.06    10.06    10.06    10.06    10.06
   BUILDHGT STCK1           10.06    10.06    10.06    10.06    10.06    10.06
   BUILDHGT STCK1           10.06    10.06     0.00    10.06    10.06    10.06
   BUILDHGT STCK1           10.06    10.06    10.06    10.06    10.06    10.06

   BUILDWID STCK1          104.51   107.39   108.49   109.42   107.02   101.37
   BUILDWID STCK1           92.64    84.88     0.00    95.32   108.01   117.42
   BUILDWID STCK1          123.27   125.36   123.65   118.18   109.13    98.45
   BUILDWID STCK1          104.51   107.39   108.49   109.42   107.02   101.37
   BUILDWID STCK1           92.64    84.88     0.00    95.32   108.01   117.42
   BUILDWID STCK1          123.27   125.36   123.65   118.18   109.13    98.45

   BUILDLEN STCK1           95.32   108.01   117.42   123.27   125.36   123.65
   BUILDLEN STCK1          118.18   109.13     0.00   104.51   107.39   108.49
   BUILDLEN STCK1          109.42   107.02   101.37    92.64    84.88    79.73
```

```
   BUILDLEN STCK1           95.32   108.01   117.42   123.27   125.36   123.65
   BUILDLEN STCK1          118.18   109.13     0.00   104.51   107.39   108.49
   BUILDLEN STCK1          109.42   107.02   101.37    92.64    84.88    79.73

   XBADJ    STCK1           -2.86   -12.63   -22.03   -30.75   -38.55   -45.17
   XBADJ    STCK1          -50.41   -54.13     0.00   -65.34   -71.77   -77.50
   XBADJ    STCK1          -83.99   -87.94   -89.21   -87.77   -87.45   -86.74
   XBADJ    STCK1          -92.46   -95.38   -95.39   -92.51   -86.82   -78.49
   XBADJ    STCK1          -67.77   -55.00     0.00   -39.16   -35.62   -30.99
   XBADJ    STCK1          -25.42   -19.08   -12.16    -4.87     2.57     7.01

   YBADJ    STCK1           13.09    18.08    23.25    29.29    34.43    38.53
   YBADJ    STCK1           41.45    45.01     0.00    44.80    41.37    36.68
   YBADJ    STCK1           30.88    24.14    16.66     8.68     0.43    -7.71
   YBADJ    STCK1          -13.09   -18.08   -23.25   -29.29   -34.43   -38.53
   YBADJ    STCK1          -41.45   -45.01     0.00   -44.80   -41.37   -36.68
   YBADJ    STCK1          -30.88   -24.14   -16.66    -8.68    -0.43     7.71

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED

 ** 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 URBAN Dispersion Algorithm for the SBL for     1 Source(s),
        for Total of    1 Urban Area(s):
```

```
  Urban Population =   1400000.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * NOTURBST - Meteorological data Ignore turbulence - stable hours
     * 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   23851 Receptor(s)

               with:      1 POINT(s), including
                          0 POINTCAP(s) and      0 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:  24142

**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) =   134.00 ;  Decay Coef. =    0.000     ;  Rot.
Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =
0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      6.2 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   9105_VA_Aero_Dr.err

 **File for Summary of Results:   9105_VA_Aero_Dr.sum

↑ *** AERMOD - VERSION 24142  ***   *** D:\Modeling Projects\9105_VA_Aero_Dr\9105_VA_Aero_Dr.isc            ***
       06/18/26
 *** AERMET - VERSION  24142 ***   ***                                                                      ***
      11:36:03

      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

                                            *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                               (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
1 1 1 1
```

```
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA
FILE.



                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                          (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,  10.80,
```

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data

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

   Surface file:   C:\Users\breeve\OneDrive - County of San Diego\Meteorology Documents\AERMET File   Met
Version:  24142
   Profile file:   C:\Users\breeve\OneDrive - County of San Diego\Meteorology Documents\AERMET File
   Surface format: FREE

   Profile format: FREE
```

Surface station no.: 93107 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2020 Year: 2020

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
20	01	01	1	01	-10.8	0.101	-9.000	-9.000	-999.	77.	8.6	0.04	1.12	1.00		2.82	57.	10.0	283.1	10.0
20	01	01	1	02	-6.6	0.081	-9.000	-9.000	-999.	56.	7.2	0.06	1.12	1.00		2.06	73.	10.0	282.6	10.0
20	01	01	1	03	-7.6	0.085	-9.000	-9.000	-999.	60.	7.2	0.04	1.12	1.00		2.37	54.	10.0	283.5	10.0
20	01	01	1	04	-6.0	0.075	-9.000	-9.000	-999.	50.	6.4	0.04	1.12	1.00		2.10	59.	10.0	283.0	10.0
20	01	01	1	05	-9.1	0.095	-9.000	-9.000	-999.	70.	8.5	0.06	1.12	1.00		2.41	63.	10.0	282.4	10.0
20	01	01	1	06	-6.1	0.078	-9.000	-9.000	-999.	52.	6.9	0.06	1.12	1.00		1.97	64.	10.0	282.6	10.0
20	01	01	1	07	-5.8	0.076	-9.000	-9.000	-999.	50.	6.7	0.06	1.12	1.00		1.92	70.	10.0	282.5	10.0
20	01	01	1	08	-1.9	0.049	-9.000	-9.000	-999.	26.	5.6	0.10	1.12	0.50		1.12	129.	10.0	282.4	10.0
20	01	01	1	09	35.0	0.125	0.383	0.005	58.	106.	-5.0	0.09	1.12	0.30		1.03	112.	10.0	286.4	10.0
20	01	01	1	10	86.9	0.261	0.897	0.005	297.	321.	-18.4	0.10	1.12	0.23		2.46	148.	10.0	289.0	10.0
20	01	01	1	11	122.3	0.218	1.240	0.005	558.	246.	-7.6	0.07	1.12	0.21		2.01	225.	10.0	290.5	10.0
20	01	01	1	12	139.1	0.279	1.433	0.005	756.	353.	-13.9	0.07	1.12	0.20		2.77	211.	10.0	291.3	10.0
20	01	01	1	13	136.5	0.296	1.559	0.005	991.	386.	-16.9	0.07	1.12	0.20		3.00	210.	10.0	291.2	10.0

```
 20 01 01   1 14  114.7  0.311  1.526  0.005 1105.  417.    -23.4  0.07   1.12   0.21    3.26  234.   10.0
290.8   10.0
 20 01 01   1 15   75.0  0.316  1.351  0.005 1173.  425.    -37.3  0.07   1.12   0.24    3.44  227.   10.0
290.3   10.0
 20 01 01   1 16   20.5  0.251  0.881  0.005 1189.  304.    -68.8  0.05   1.12   0.33    3.08  244.   10.0
289.4   10.0
 20 01 01   1 17   -5.7  0.078 -9.000 -9.000 -999.   92.      7.5  0.07   1.12   0.61    1.92  236.   10.0
288.2   10.0
 20 01 01   1 18   -7.6  0.092 -9.000 -9.000 -999.   67.      9.1  0.15   1.12   1.00    1.92  193.   10.0
287.3   10.0
 20 01 01   1 19   -5.9  0.080 -9.000 -9.000 -999.   54.      7.7  0.10   1.12   1.00    1.83  140.   10.0
286.6   10.0
 20 01 01   1 20   -2.6  0.053 -9.000 -9.000 -999.   29.      5.1  0.10   1.12   1.00    1.21  144.   10.0
286.2   10.0
 20 01 01   1 21   -2.5  0.051 -9.000 -9.000 -999.   28.      4.7  0.09   1.12   1.00    1.21   99.   10.0
285.3   10.0
 20 01 01   1 22   -4.1  0.065 -9.000 -9.000 -999.   40.      5.9  0.06   1.12   1.00    1.65   76.   10.0
284.8   10.0
 20 01 01   1 23   -1.7  0.042 -9.000 -9.000 -999.   20.      3.8  0.09   1.12   1.00    0.98   99.   10.0
284.5   10.0
 20 01 01   1 24   -3.6  0.060 -9.000 -9.000 -999.   35.      5.3  0.06   1.12   1.00    1.52   78.   10.0
283.8   10.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 20 01 01 01   10.0 1   57.    2.82   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 24142  ***   *** D:\Modeling Projects\9105_VA_Aero_Dr\9105_VA_Aero_Dr.isc            ***
       06/18/26
 *** AERMET - VERSION  24142 ***   ***                                                                  ***
      11:36:03

      PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  SigA Data
```

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

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

NETWORK GROUP ID GRID-ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE
ALL	1ST HIGHEST VALUE IS	197.69462 AT (	487180.91,	3630047.40,	127.42,	127.42,	0.00)		DC
	2ND HIGHEST VALUE IS	195.14931 AT (	487175.96,	3630047.34,	127.46,	127.46,	0.00)		DC
	3RD HIGHEST VALUE IS	194.56592 AT (	487185.86,	3630047.47,	127.35,	127.35,	0.00)		DC
	4TH HIGHEST VALUE IS	190.52299 AT (	487190.81,	3630047.53,	127.22,	127.22,	0.00)		DC
	5TH HIGHEST VALUE IS	188.60330 AT (	487171.01,	3630047.28,	127.49,	127.49,	0.00)		DC
	6TH HIGHEST VALUE IS	186.03216 AT (	487189.00,	3630045.00,	127.38,	127.38,	0.00)		DC
	7TH HIGHEST VALUE IS	185.73603 AT (	487179.00,	3630045.00,	127.60,	127.60,	0.00)		DC
	8TH HIGHEST VALUE IS	182.21572 AT (	487195.76,	3630047.59,	127.15,	127.15,	0.00)		DC
	9TH HIGHEST VALUE IS	177.94550 AT (	487219.00,	3630025.00,	126.49,	126.49,	0.00)		DC
	10TH HIGHEST VALUE IS	176.32164 AT (	487166.06,	3630047.22,	127.51,	127.51,	0.00)		DC

*** RECEPTOR TYPES: GC = GRIDCART

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

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

GROUP ID	NETWORK	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH	1ST HIGH VALUE IS 1626.06949	ON 20110806:	AT (487089.00, 3630145.00, 127.31, 127.31, 0.00)	DC	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

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

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

A Total of 0 Fatal Error Message(s)
A Total of 9 Warning Message(s)
A Total of 15629 Informational Message(s)

A Total of 26304 Hours Were Processed

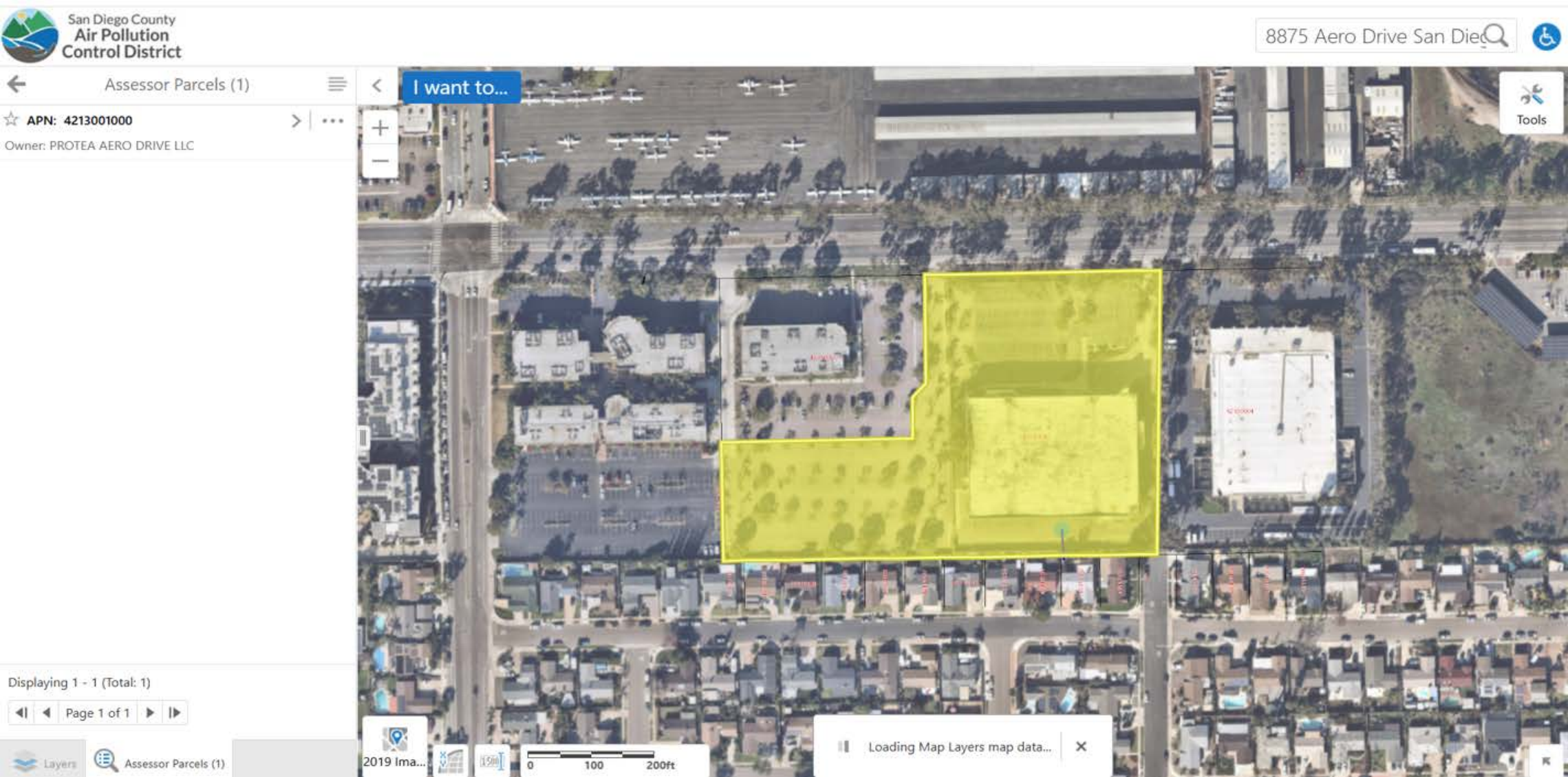
A Total of 654 Calm Hours Identified

A Total of 761 Missing Hours Identified (2.89 Percent)

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

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

MX W403	102	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data
MX W403	1	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data
MX W403	2	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data
MX W403	3	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data
MX W403	4	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data
MX W403	5	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data
MX W403	6	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data
MX W403	7	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data
MX W403	8	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data


San Diego County
Air Pollution
Control District
8875 Aero Drive San Die
Assessor Parcels (1)
APN: 4213001000
Owner: PROTEA AERO DRIVE LLC
I want to...
Tools
Displaying 1 - 1 (Total: 1)
Page 1 of 1
Layers
Assessor Parcels (1)
2019 Ima...
0
100
200ft
Loading Map Layers map data...