Rule 1200 Health Risk Assessment

Facility Name:	K1
Facility ID:	APCD2026-SITE-05010
Application:	APCD2026-APP-009086
Project Engineer:	Priscilla Castanon
Modeler:	Bill Reeve
Toxics Risk Analyst:	Maria Galvez
Date Submitted to Toxics:	5/26/2026
Date Completed by Toxics:	7/8/2026
HRA Tools Used:	Lakes-AERMOD (Version 24142)/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)	4.55 in one million
Chronic Noncancer Health Hazard Index (Resident)	= 1.54E-03
8-Hour Noncancer Health Hazard Index (Worker)	= NA*
Maximum Acute Health Hazard Index	= 0.155

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

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.

The estimated cancer risk for the application exceeds Rule 1200 limits of 1 in one million (not equipped with T-BACT) at 50 hours, therefore the project is within Rule 1200 thresholds contingent on Routine Maintenance and Testing limited to 10.9 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		1.69E+01
ACETALDEHYDE	4.81E-02	2.40E+00
ACROLEIN	2.08E-03	1.04E-01
ARSENIC COMPOUNDS	9.82E-05	4.91E-03
BENZENE	1.14E-02	5.72E-01
BUTADIENE, 1,3-	1.33E-02	6.66E-01
CADMIUM AND COMPOUNDS	9.21E-05	4.61E-03
CHLOROBENZENE	1.23E-05	6.14E-04
CHROMIUM (HEXAVALENT)	6.14E-06	3.07E-04
COPPER AND COMPOUNDS	2.52E-04	1.26E-02
ETHYL BENZENE	6.69E-04	3.35E-02
FORMALDEHYDE	1.06E-01	5.30E+00
HEXANE-N	1.65E-03	8.26E-02
HYDROCHLORIC ACID	1.14E-02	5.72E-01
LEAD & COMPOUNDS	5.10E-04	2.55E-02
MANGANESE AND COMPOUNDS	1.90E-04	9.52E-03
MERCURY AND COMPOUNDS	1.23E-04	6.14E-03
NAPHTHALENE	1.21E-03	6.05E-02
NICKEL AND NICKEL COMPOUNDS	2.39E-04	1.20E-02
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for HRA]	2.22E-03	1.11E-01
PROPYLENE	2.87E-02	1.43E+00
SELENIUM AND COMPOUNDS	1.35E-04	6.75E-03
TOLUENE	6.47E-03	3.24E-01
XYLENES	2.60E-03	1.30E-01

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
Diesel particulate emission factor (g/hp-hr)	0.13
Engine horsepower (bhp)	1207
Fuel Consumption (gal/hr)	61.40
Annual hours of operation	50

Release Parameters:

Exhaust Flow Rate, cfm:	7344
Exhaust Temperature, °F:	883
Stack Height above ground, ft:	57.0 (horizontal release)
Stack Diameter, ft:	1.0

Discussion

The HRA was conducted in accordance with EPA and OEHHA guidance and District standard procedures. A horizontal point source was modeled with refined air dispersion modeling using EPA's AERMOD model, AERMET (Version 24142) processed Sherman Elementary School 2020/2022 sigma theta 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.

*HARP - HI LLC\9086_RAST_Rev1\resident_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO
1	Engine		9901	DieselExhP	0.00769	4.55E-06	30YrCancerRMP_InhSoilDermMMilk_FAH3to70

*HARP - HI LLC\9086_RAST_Rev1\resident_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RESP	SCENARIO
1	Engine		9901	DieselExhP	0.00769	1.54E-03	NonCancerChronicDerived_InhSoilDermMMilk

*HARP - HI LLC\9086_RAST_Rev1\resident_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	EYE	SCENARIO
1	Engine		9901	DieselExhP	0	0.00E+00	NonCancerAcute
2	Engine		75070	Acetaldehy	3.66	7.79E-03	NonCancerAcute
3	Engine		107028	Acrolein	0	0.00E+00	NonCancerAcute
4	Engine		7440382	Arsenic	0.00748	0.00E+00	NonCancerAcute
5	Engine		71432	Benzene	0.871	0.00E+00	NonCancerAcute
6	Engine		106990	1,3-Butadi	1.01	0.00E+00	NonCancerAcute
7	Engine		7440439	Cadmium	0.00702	0.00E+00	NonCancerAcute
8	Engine		108907	Chloroben	0.000935	0.00E+00	NonCancerAcute
9	Engine		18540299	Cr(VI)	0.000468	0.00E+00	NonCancerAcute
10	Engine		7440508	Copper	0.0192	0.00E+00	NonCancerAcute
11	Engine		100414	Ethyl Benz	0.051	0.00E+00	NonCancerAcute
12	Engine		50000	Formaldeh	8.07	1.47E-01	NonCancerAcute
13	Engine		110543	Hexane	0.126	0.00E+00	NonCancerAcute
14	Engine		7647010	HCl	0.871	4.15E-04	NonCancerAcute
15	Engine		7439921	Lead	0.0388	0.00E+00	NonCancerAcute
16	Engine		7439965	Manganes	0.0145	0.00E+00	NonCancerAcute
17	Engine		7439976	Mercury	0.00935	0.00E+00	NonCancerAcute
18	Engine		91203	Naphthale	0.0921	0.00E+00	NonCancerAcute
19	Engine		7440020	Nickel	0.0182	0.00E+00	NonCancerAcute
20	Engine		1151	PAHs-w/o	0.169	0.00E+00	NonCancerAcute
21	Engine		115071	Propylene	2.18	0.00E+00	NonCancerAcute
22	Engine		7782492	Selenium	0.0103	0.00E+00	NonCancerAcute
23	Engine		108883	Toluene	0.493	9.86E-05	NonCancerAcute
24	Engine		7664417	NH3	0	0.00E+00	NonCancerAcute
25	Engine		1330207	Xylenes	0.198	9.00E-06	NonCancerAcute
						1.55E-01	

PROJECT TITLE:

APP009086
Hourly x/q

COMMENTS:

SOURCES:

1

RECEPTORS:

30415

OUTPUT TYPE:

Concentration

MAX:

605 ug/m^3

COMPANY NAME:

MODELER:

DATE:

7/8/2026

SCALE: 1:1,155

0 0.03 km

PROJECT NO.:

PROJECT TITLE:

APP009086
Annual x/q

COMMENTS:

SOURCES:

1

RECEPTORS:

30415

OUTPUT TYPE:

Concentration

MAX:

59.9 ug/m^3

COMPANY NAME:

MODELER:

DATE:

7/8/2026

SCALE: 1:1,017

0 0.03 km

PROJECT NO.:

Facility Name:	K1		
Application Number:	APCD2026-APP-009086		
Site ID Number:	APCD2026-SITE-05010		
Equipment Address:	330 13th Street		
	San Diego, CA 92101		
Contact Name:	Stephanie Zahn		
Contact Title:	Community Manager		
Contact Affiliation:	K1		
Contact Number:	(619) 391-3331		
Contact E-Mail:	k1mgr@greystar.com		
Project Engineer:	Priscilla Castanon		
Make:	Mitsubishi		
Model:	S12A2-Y2PTAW2		
S/N:	29157		
Fuel Type:	diesel		
BHP Rating:	1207		
Model Year:	2018		
Tier Level:	2		
Engine Family Number:	JMVXL33.9BBA		
Device Driven:	750 kW generator		
Controls	n/A		
NOx, g/BHP-hr:	4.00	5.36	g/kW-hr
CO, g/BHP-hr:	0.45	0.6	g/kW-hr
NMHC, g/BHP-hr:	0.42	0.56	g/kW-hr
PM10, g/BHP-hr:	0.13	0.17	g/kW-hr
NH3 Slip from SCR (yes/no)	no	0	ppm (default 10 ppm if applicable)
Fuel Usage, gal/hr:	61.4		
Operating Schedule, hrs/day:	24		
Operating Schedule, hrs/yr:	50		
Exhaust Flow Rate, cfm:	7344		
Exhaust Temperature, °F:	883		
Stack Height above ground, ft:	57	Volume source, located on 3rd floor	
Stack Diameter, ft:	1		
Nearest School, ft:	600		
Residential Receptor, m:	30.48	100	ft
Occupational Receptor, m:	25.91	85	ft
Acute Receptor, m:	25.91	85	ft
Vertical Exhaust? (yes/no):	yes		
lapper Valve? (flapper/raincap):	Flapper		
Plot Plan? (yes/no):	yes		
Flow Obstructions*:	no		
	Passive ventilation		
	*Volume source; Exhausting through two 8' x 5' louvers.		

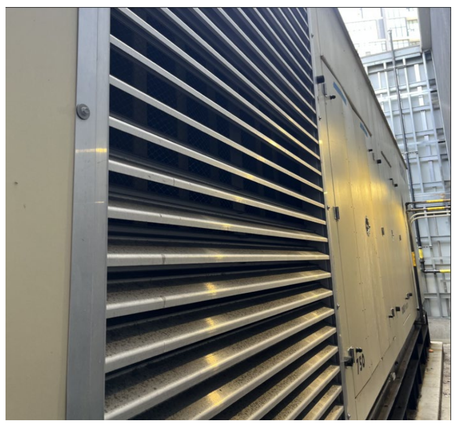
If less than 1000 ft from source of emissions to school property line and increase in toxic emissions, AB3205 notice may be required.

Notice Needed?	Need Notice
Consult Toxics?	Distances are more than 1

Completion Check List

Item	Attached and Completed?		
	Yes	No	Notes
General Application			
Emergency Engine Supplen			
Toxics Form			
with required locations			
Engine Manufacturer Specs			
Engine Emissions Data			
Engine CARB/EPA Certifica			
Control Equipment Specs (i			
BACT Analysis (if applicable			

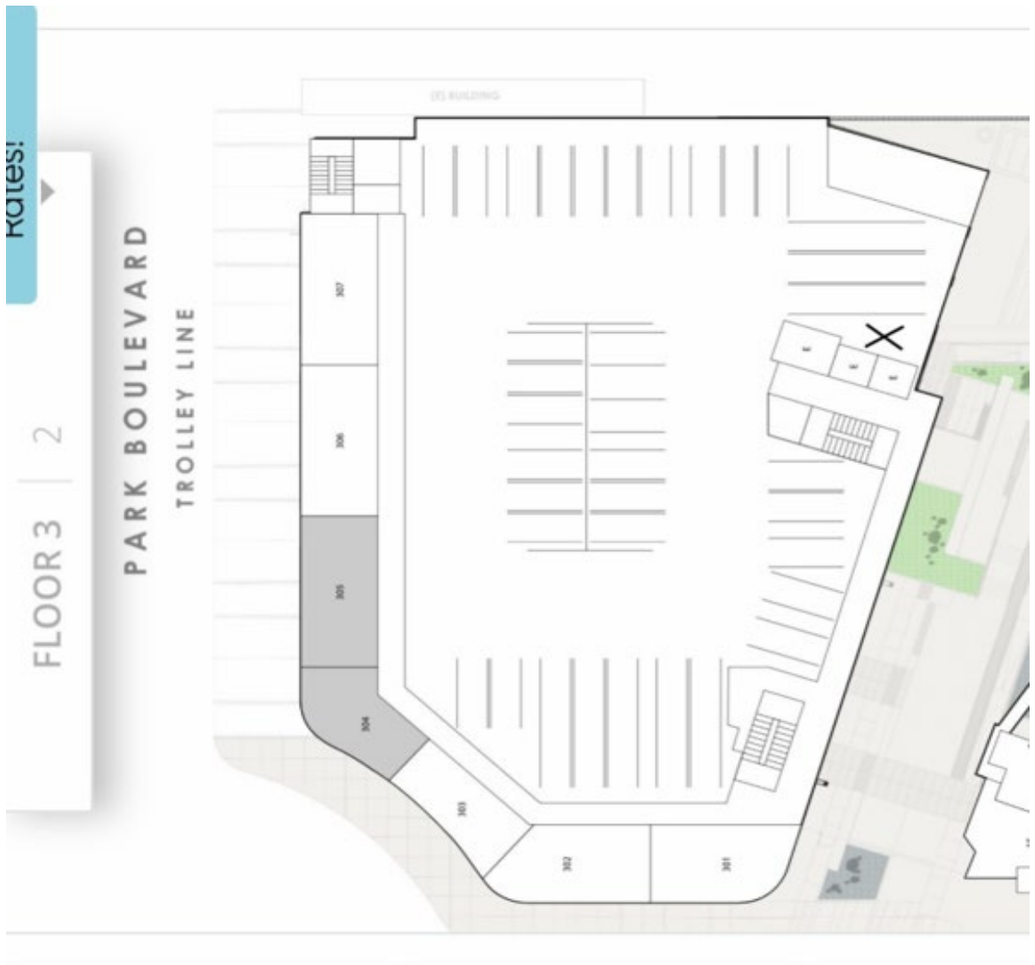
Exhaust grate Pics: 2 louvers 8' x 5', on either side of the enclosure



Property Boundary & Engine Location

Red Dot: Engine Location, 3rd floor

Engine Location



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

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

Facility Name: K1
Equipment Location: 330 13th Street San Diego, CA 92101

Project Description: Emergency Diesel Engine
Control Equipment: None
Operating Schedule: Hours per Day: 24 Weeks per Year: 50
Days per Week: 1 Days per Year: 50

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)	57.0		
Stack Diameter (or length x width) (ft)	1.00		
Exhaust Gas Temperature (°F)[1]	883		
Exhaust Gas Flow (ACFM)	7344		
Direction of Flow[2]	vertical		
Flow Obstruction[3]	no		
Distance to Nearest Property Line (+/- 10ft)	85.00		

[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)	41' 8"		

San Diego APCD Use Only

Additional Rule 1200 Submittal Information

Submittal Date:		Site ID:	APCD2026-SITE-05010
Project Engineer:	Priscilla Castanon	Appl. Number(s):	APCD2026-APP-009086
Fees Collected:		PTO No. (if existing):	

FACILITY NAME: K1

Fuel Consumption (gal/hr):	61.40
Diesel Particulate Emission Factor (g/hp-hr):	0.12682
Brake Horsepower (hp):	1207
Annual Hours of Operation (hrs):	50
FACILITY ID:	APCD2026-SITE-05010
APPLICATION NO.:	APCD2026-APP-009086
ENGINEER:	**Priscilla Castanon**

RISK ANALYST ONLY

DISPERSION MODELING DATA

Annual Receptor Type:	Resident
ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):	**31.7**
Distance (m):	
Hourly Receptor Type:	PMI
HOURLY DISPERSION FACTOR (µg/m3)/(g/s):	**604.5**
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/m³	Annual GLC µg/m³
DIESEL PARTICULATE			1.69E+01		2.42E-04		7.69E-03
ACETALDEHYDE	7.83E-01	4.81E-02	2.40E+00	6.06E-03		3.66E+00	
ACROLEIN*	3.39E-02	2.08E-03	1.04E-01	2.62E-04			
ARSENIC COMPOUNDS	1.60E-03	9.82E-05	4.91E-03	1.24E-05		7.48E-03	
BENZENE	1.86E-01	1.14E-02	5.72E-01	1.44E-03		8.71E-01	
BUTADIENE, 1,3-	2.17E-01	1.33E-02	6.66E-01	1.68E-03		1.0148842	
CADMIUM AND COMPOUNDS	1.50E-03	9.21E-05	4.61E-03	1.16E-05		7.02E-03	
CHLOROBENZENE	2.00E-04	1.23E-05	6.14E-04	1.55E-06		9.35E-04	
CHROMIUM (HEXAVALENT)	1.00E-04	6.14E-06	3.07E-04	7.74E-07		4.68E-04	
COPPER AND COMPOUNDS	4.10E-03	2.52E-04	1.26E-02	3.17E-05		1.92E-02	
ETHYL BENZENE	1.09E-02	6.69E-04	3.35E-02	8.43E-05		5.10E-02	
FORMALDEHYDE	1.73E+00	1.06E-01	5.30E+00	1.34E-02		8.07E+00	
HEXANE-N	2.69E-02	1.65E-03	8.26E-02	2.08E-04		1.26E-01	
HYDROCHLORIC ACID	1.86E-01	1.14E-02	5.72E-01	1.44E-03		8.71E-01	
LEAD & COMPOUNDS	8.30E-03	5.10E-04	2.55E-02	6.42E-05		3.88E-02	
MANGANESE AND COMPOUNDS	3.10E-03	1.90E-04	9.52E-03	2.40E-05		1.45E-02	
MERCURY AND COMPOUNDS (INORGANIC)	2.00E-03	1.23E-04	6.14E-03	1.55E-05		9.35E-03	
NAPHTHALENE	1.97E-02	1.21E-03	6.05E-02	1.52E-04		9.21E-02	
NICKEL AND NICKEL COMPOUNDS	3.90E-03	2.39E-04	1.20E-02	3.02E-05		1.82E-02	
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for	3.62E-02	2.22E-03	1.11E-01	2.80E-04		1.69E-01	
PROPYLENE	4.67E-01	2.87E-02	1.43E+00	3.61E-03		2.18E+00	
SELENIUM AND COMPOUNDS	2.20E-03	1.35E-04	6.75E-03	1.70E-05		1.03E-02	
TOLUENE	1.05E-01	6.47E-03	3.24E-01	8.15E-04		4.93E-01	
AMMONIA (only if SCR)							
XYLENES	4.24E-02	2.60E-03	1.30E-01	3.28E-04		1.98E-01	

HARP2 - HRACalc (dated 22118) 7/8/2026 2:35:21 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: ON
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:\9086_K1 Thirteenth Street SD, LLC\9086_RAST_Rev1\resident_CancerRisk.csv
Calculating chronic risk
Chronic risk saved to: D:\9086_K1 Thirteenth Street SD, LLC\9086_RAST_Rev1\resident_NCChronicRisk.csv
Calculating acute risk
Acute risk saved to: D:\9086_K1 Thirteenth Street SD, LLC\9086_RAST_Rev1\resident_NCAcuteRisk.csv
HRA ran successfully

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** 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	485648.1	3619041.0	10.8	17.37	745.93	47.50	0.30	YES	YES	HOR	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN SigA Data

*** 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 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.
     * Option for Capped & Horiz Stacks Selected With:
         0 Capped Stack(s); and         1 Horizontal Stack(s)
     * 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   30415 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:  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) =    34.00 ;  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 =      6.9 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   9086_K1_Rev1.err
**File for Summary of Results:   9086_K1_Rev1.sum
```



```
*** 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.: 23188 Upper air station no.: 3190
Name: SAN_DIEGO/LINDBERGH_FIELD 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	-7.1	0.089	-9.000	-9.000	-999.	63.	8.9	0.18	0.74	1.00	1.79	51.	10.0	285.5	10.0
20	01	01	1	02	-6.5	0.085	-9.000	-9.000	-999.	60.	8.6	0.19	0.74	1.00	1.70	70.	10.0	284.5	10.0
20	01	01	1	03	-2.3	0.051	-9.000	-9.000	-999.	27.	5.0	0.17	0.74	1.00	1.03	17.	10.0	283.3	10.0
20	01	01	1	04	-1.4	0.039	-9.000	-9.000	-999.	19.	3.9	0.17	0.74	1.00	0.80	22.	10.0	282.5	10.0
20	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.22	0.74	1.00	0.00	0.	10.0	281.8	10.0
20	01	01	1	06	-3.0	0.058	-9.000	-9.000	-999.	34.	6.0	0.19	0.74	1.00	1.16	65.	10.0	282.2	10.0
20	01	01	1	07	-3.0	0.062	-9.000	-9.000	-999.	37.	7.1	0.18	0.74	1.00	1.25	35.	10.0	282.5	10.0
20	01	01	1	08	-3.7	0.084	-9.000	-9.000	-999.	59.	14.9	0.18	0.74	0.48	1.56	59.	10.0	284.0	10.0
20	01	01	1	09	30.9	0.141	0.358	0.005	53.	127.	-8.2	0.17	0.74	0.28	1.03	112.	10.0	285.9	10.0
20	01	01	1	10	53.1	0.260	0.583	0.005	135.	319.	-30.0	0.20	0.74	0.21	2.15	126.	10.0	288.2	10.0
20	01	01	1	11	87.2	0.254	1.003	0.005	419.	308.	-17.1	0.25	0.74	0.19	1.83	216.	10.0	290.3	10.0
20	01	01	1	12	97.8	0.337	1.170	0.005	593.	469.	-35.3	0.25	0.74	0.18	2.64	214.	10.0	290.4	10.0
20	01	01	1	13	96.1	0.368	1.245	0.005	726.	536.	-46.9	0.26	0.74	0.18	2.95	207.	10.0	290.1	10.0
20	01	01	1	14	82.2	0.327	1.228	0.005	813.	451.	-38.5	0.25	0.74	0.19	2.59	217.	10.0	289.8	10.0
20	01	01	1	15	56.8	0.356	1.136	0.005	932.	509.	-71.4	0.26	0.74	0.22	2.95	197.	10.0	289.5	10.0
20	01	01	1	16	17.8	0.246	0.787	0.005	983.	299.	-75.3	0.25	0.74	0.31	2.06	235.	10.0	289.0	10.0
20	01	01	1	17	-5.1	0.087	-9.000	-9.000	-999.	91.	11.7	0.25	0.74	0.59	1.61	224.	10.0	288.4	10.0
20	01	01	1	18	-5.1	0.083	-9.000	-9.000	-999.	57.	10.1	0.26	0.74	1.00	1.52	191.	10.0	287.8	10.0
20	01	01	1	19	-2.6	0.058	-9.000	-9.000	-999.	34.	6.9	0.21	0.74	1.00	1.12	163.	10.0	287.6	10.0
20	01	01	1	20	-2.3	0.055	-9.000	-9.000	-999.	31.	6.5	0.21	0.74	1.00	1.07	167.	10.0	287.4	10.0
20	01	01	1	21	-1.8	0.048	-9.000	-9.000	-999.	25.	5.6	0.20	0.74	1.00	0.94	137.	10.0	287.2	10.0
20	01	01	1	22	-2.3	0.056	-9.000	-9.000	-999.	32.	6.9	0.19	0.74	1.00	1.12	65.	10.0	286.4	10.0
20	01	01	1	23	-3.1	0.063	-9.000	-9.000	-999.	38.	7.3	0.19	0.74	1.00	1.25	82.	10.0	285.8	10.0

```
 20 01 01   1 24   -4.0  0.072 -9.000 -9.000 -999.   46.      8.3  0.19   0.74   1.00    1.43   86.   10.0  285.6   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   51.    1.79   285.6   99.0  -99.00  -99.00

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

 *** 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                        AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS      59.85761 AT (  485646.34,  3619043.06,    11.06,    12.01,    0.00)  DC
          2ND HIGHEST VALUE IS      59.34327 AT (  485641.46,  3619043.01,    11.18,    12.01,    0.00)  DC
          3RD HIGHEST VALUE IS      57.80021 AT (  485651.22,  3619043.10,    10.94,    11.75,    0.00)  DC
          4TH HIGHEST VALUE IS      56.32883 AT (  485636.58,  3619042.97,    11.29,    11.29,    0.00)  DC
          5TH HIGHEST VALUE IS      55.65005 AT (  485647.00,  3619048.00,    11.55,    11.55,    0.00)  DC
          6TH HIGHEST VALUE IS      53.68903 AT (  485656.11,  3619043.14,    10.91,    10.91,    0.00)  DC
          7TH HIGHEST VALUE IS      51.72299 AT (  485637.00,  3619048.00,    11.76,    11.76,    0.00)  DC
          8TH HIGHEST VALUE IS      51.55704 AT (  485631.70,  3619042.92,    11.37,    11.37,    0.00)  DC
          9TH HIGHEST VALUE IS      50.73948 AT (  485657.00,  3619048.00,    11.27,    11.27,    0.00)  DC
         10TH HIGHEST VALUE IS      48.55409 AT (  485660.99,  3619043.19,    10.88,    10.88,    0.00)  DC


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

```

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

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


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

                                                       DATE                                                                    NETWORK
GROUP ID                                AVERAGE CONC     (YYMMDDHH)              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     604.53201  ON 20042623: AT (  485647.00,  3619068.00,    12.66,    12.66,    0.00)  DC


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



```
 *** 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       15565 Informational Message(s)

 A Total of       26304 Hours Were Processed

 A Total of        1541 Calm Hours Identified

 A Total of         861 Missing Hours Identified (  3.27 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
```

Galvez, Maria

From: Galvez, Maria
Sent: Tuesday, June 23, 2026 11:44 AM
To: Reeve, Bill
Cc: Castanon, Priscilla; Horres, Nicholas
Subject: RE: HRA Request: 9086_K1 Thirteenth Street SD, LLC

Hi Bill,

We're ready to move forward with updating the modeling for this one. As we discussed, we're planning to update the source from a volume source to a horizontal point source with the same release parameters as before. I've updated the release parameters provided by Priscilla to reflect this, and included these here for reference.

Parameter	Point Source #1
Height of release above ground (ft)	57.0
Stack Diameter (or length x width) (ft)	1.00
Exhaust Gas Temperature (°F)[1]	883
Exhaust Gas Flow (ACFM)	7344
Direction of Flow[2]	non-vertical
Flow Obstruction[3]	no
Distance to Nearest Property Line (+/- 10ft)	85.00

All nearby buildings are existing, but please let us know if you need more detailed information for your model setup.

Thanks for your help with this!

Maria Galvez
Associate APC Engineer
San Diego County Air Pollution Control District
Mobile: 858-692-7281
Email: Maria.Galvez@sdapcd.org

From: Horres, Nicholas <Nicholas.Horres@sdapcd.org>
Sent: Thursday, June 4, 2026 3:45 PM
To: Galvez, Maria <Maria.Galvez@sdapcd.org>
Cc: Castanon, Priscilla <Priscilla.Castanon@sdapcd.org>
Subject: FW: HRA Request: 9086_K1 Thirteenth Street SD, LLC

Hi Maria,

This one is assigned to you. Looks like it's a repermitting of the engine under APCD2018-APP-005561, so too old to use the original analysis, but I'd be curious to know how close it comes to the original 16.5 hr/yr limit. Thanks!

Nick

From: Reeve, Bill <Bill.Reeve@sdapcd.org>
Sent: Thursday, June 4, 2026 3:23 PM
To: Castanon, Priscilla <Priscilla.Castanon@sdapcd.org>
Cc: Amberg, Stephen <Stephen.Amberg@sdapcd.org>; Bernabe, Andrew <Andrew.Bernabe@sdapcd.org>; Canter, Adam <Adam.Canter@sdapcd.org>; DiFulvio, Jaime <Jaime.DiFulvio@sdapcd.org>; Galvez, Maria <Maria.Galvez@sdapcd.org>; Horres, Nicholas <Nicholas.Horres@sdapcd.org>; Nguyen, Tony <Tony.Nguyen2@sdapcd.org>; Ossowski, Peter <Peter.Ossowski@sdapcd.org>; Wong, Benjamin <Benjamin.Wong@sdapcd.org>
Subject: RE: HRA Request: 9086_K1 Thirteenth Street SD, LLC

I have completed the modeling for K1 Thirteenth Street SD, LLC. The modeling zip file is in the folder 9086_K1 Thirteenth Street SD, LLC

Thanks,
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: Castanon, Priscilla <Priscilla.Castanon@sdapcd.org>
Sent: Tuesday, May 26, 2026 4:21 PM
To: Reeve, Bill <Bill.Reeve@sdapcd.org>; Nguyen, Tony <Tony.Nguyen2@sdapcd.org>
Cc: Canter, Adam <Adam.Canter@sdapcd.org>; Horres, Nicholas <Nicholas.Horres@sdapcd.org>
Subject: HRA Request: 9086_K1 Thirteenth Street SD, LLC

Hello,

This is an HRA request for one new emergency use diesel engine.

Please post results to 9086_K1 Thirteenth Street SD, LLC
$3,188.00 in TNS under application APCD2026-APP-009086. Please let me know if additional funds are needed.

Stack /Release Point Details
This is a volume source. The stack exhausts into the genset enclosure where there are two louver openings on the side of the unit.
Louver Dimensions: 8 feet by 5 feet.
Unit is located on the 3rd floor of the facility, 57 feet above ground.
Images of the unit's location within the project boundary can be found on the "project boundary" tab in the calculation excel sheet.

Please let me know if there are any questions.

Thank you,

San Diego County
Air Pollution
Control District

www.sdapcd.org

Priscilla Castañón
(She/Her/Hers)
Assistant Air Pollution Control Engineer
M-Th 6:00 a.m. – 4:30 p.m.
10124 Old Grove Rd, San Diego, CA 92131
Phone: 858-833-1365