Rule 1200 Health Risk Assessment

Facility Name:	Lockheed Martin
Facility ID:	APCD2021-SITE-03766
Application:	APCD2023-APP-008026
Project Engineer:	John Lee
Modeler:	Bill Reeve
Toxics Risk Analyst:	Stephen Amberg
Date Submitted to Toxics:	3/6/2023
Date Completed by Toxics:	3/26/2024
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)	8.51 in one million
Chronic Noncancer Health Hazard Index (Resident)	= 2.34E-06
8-Hour Noncancer Health Hazard Index (Worker)	= NA*
Acute Health Hazard Index (*PMI)	= 0.0157

*Point of Maximum Impact

Input Data Provided by Project Engineer:

Type of Source: Adhesive Material Application Operation
Controls Description: None.

Worst-Case TAC Emissions Increase:

Each Unit

Toxic Air Contaminant	Hourly Emission Rate (lb/hr)	Annual Emission Rate (lb/yr)
PCBTF	6.7	535.0
IPA	0.3	21.0

Release Parameters:

Stack Height (ft)	31
Stack Diameter (ft)	1.067
Temperature deg F	ambient
Exhaust Flow Rate (acfm)	16800

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 Chula Vista 2010-2012 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 - HRACalc v22118 3/25/2024 11:40:58 AM - Cancer Risk - Input File: D:\1200\8026_Lockheed\RAST\Resident_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	RISK_SUM	SCENARIO
1	STCK1		98566	PCBTF	0.419	8.51E-06	30YrCancerRMP_InhSoilDermMMilk_FAH16to70
2	STCK1		67630	Isopropyl A	0.0164	0.00E+00	30YrCancerRMP_InhSoilDermMMilk_FAH16to70
						8.51E-06	

*HARP - HRACalc v22118 3/25/2024 11:40:58 AM - Chronic Risk - Input File: D:\1200\8026_Lockheed\RAST\Resident_HRAInput.hra

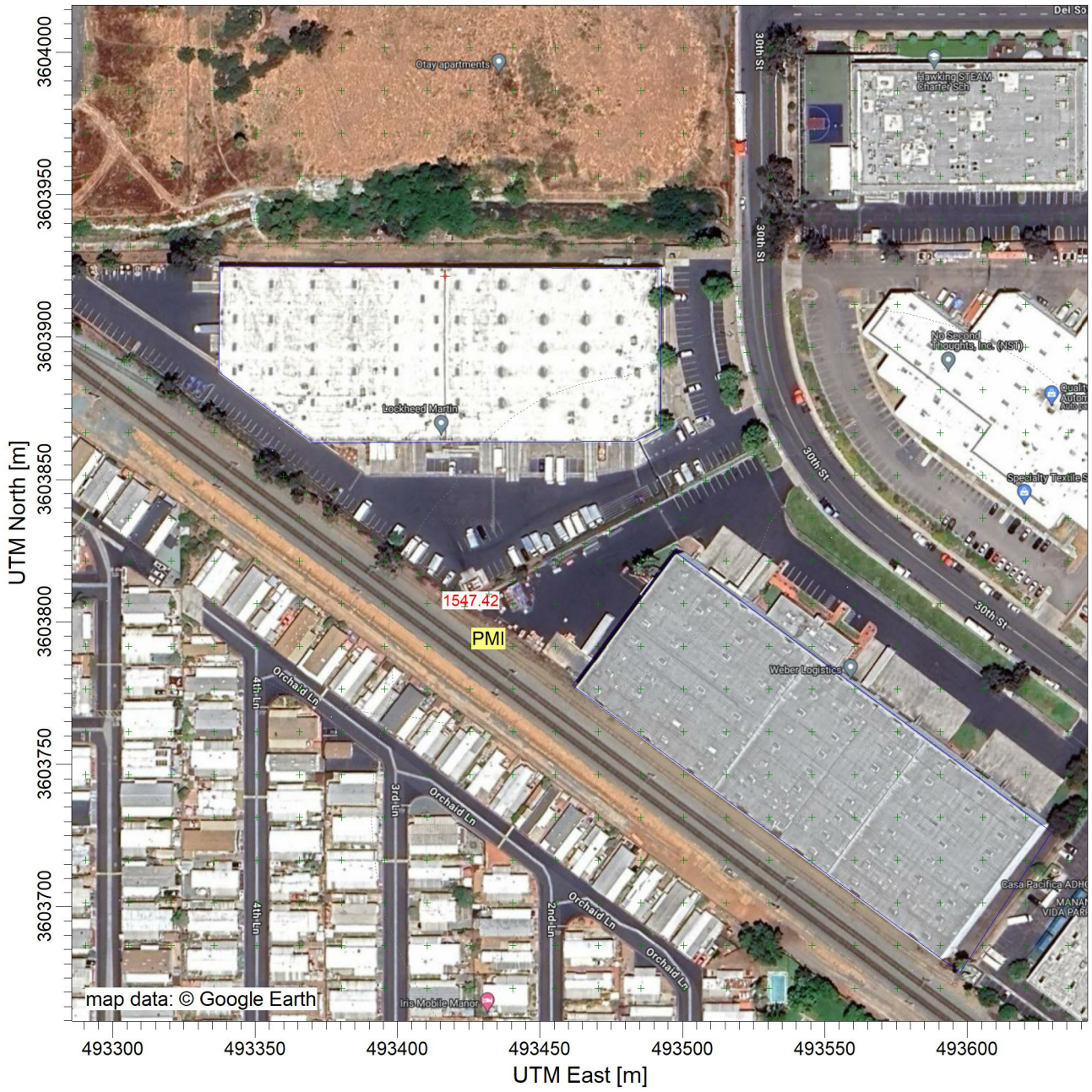
INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	KIDNEY	SCENARIO
1	STCK1		98566	PCBTF	0.419	0.00E+00	NonCancerChronicDerived_InhSoilDermMMilk
2	STCK1		67630	Isopropyl A	0.0164	2.34E-06	NonCancerChronicDerived_InhSoilDermMMilk
						2.34E-06	

*HARP - HRACalc v22118 3/25/2024 11:40:58 AM - Acute Risk - Input File: D:\1200\8026_Lockheed\RAST\Resident_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	RESP	SCENARIO
1	STCK1		98566	PCBTF	1310	0.00E+00	NonCancerAcute
2	STCK1		67630	Isopropyl A	50.3	1.57E-02	NonCancerAcute
						1.57E-02	

PROJECT TITLE:2021 Encina Wastewater AB2588 HRA

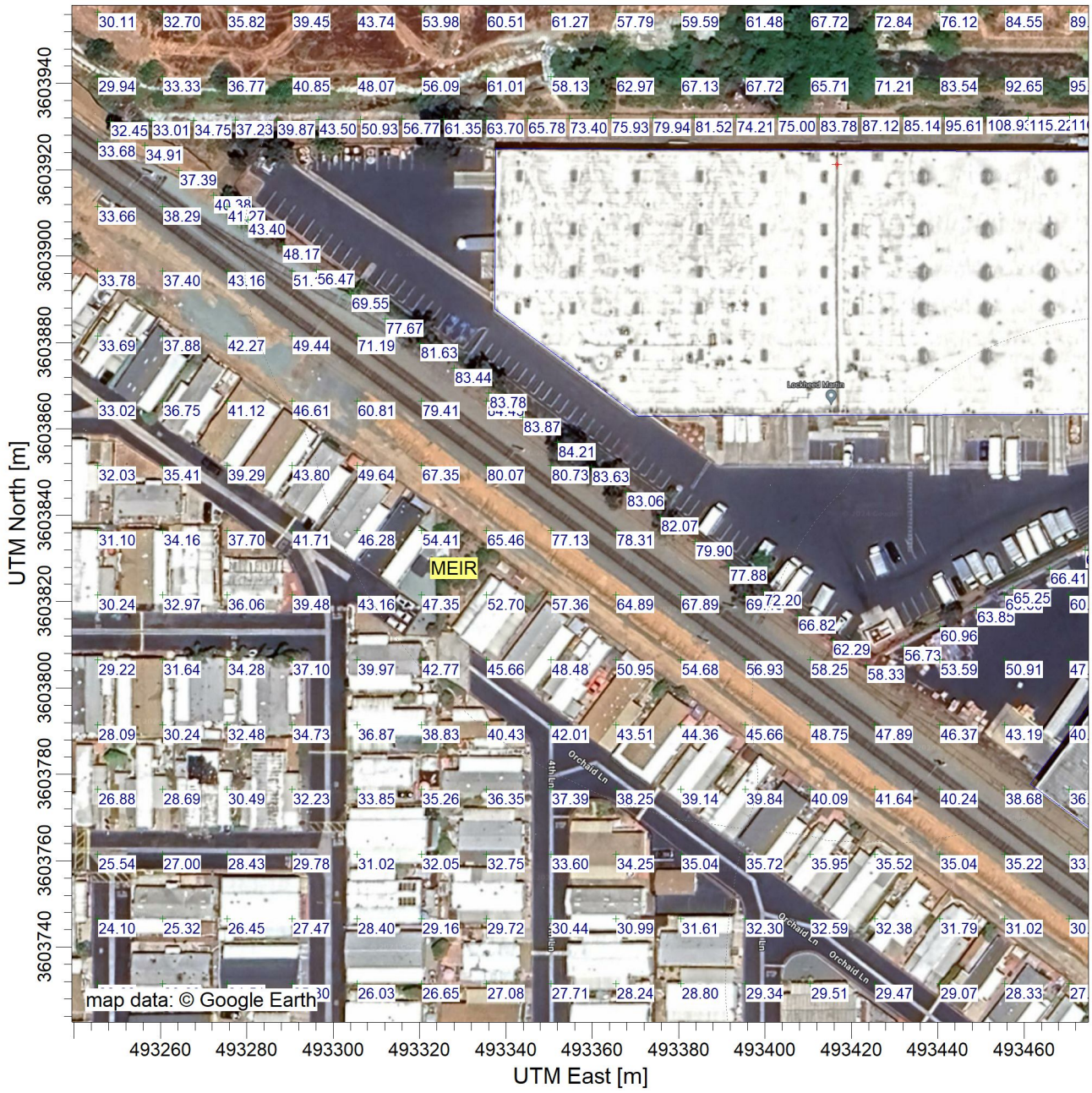
APP008026 Lockheed
hourly x/q



COMMENTS:	SOURCES: **1**		
	RECEPTORS: **17933**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:2,243 0 0.05 km	
	MAX: **1547 ug/m^3**		PROJECT NO.:

PROJECT TITLE:2021 Encina Wastewater AB2588 HRA

APP008026 Lockheed
annual x/q



COMMENTS:	SOURCES: **1**		
	RECEPTORS: **17933**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:1,481 0 0.05 km	
	MAX: **118 ug/m^3**		PROJECT NO.:

ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):	54.41	Maximum Resident Receptor
ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):		Maximum Worker Receptor
HOURLY DISPERSION FACTOR (µg/m3)/(g/s):	1547.42	Maximum Acute Receptor

Pollutant Name	CAS	Hourly (lb/hr)	Annual (lb/yr)	Hourly (g/s)	Annual (g/s)	Hourly GLC (µg/m3)	Annual Resident GLC (µg/m3)	Annual Worker GLC (µg/m3)
PCBTF	98566	6.69E+00	5.35E+02	8.44E-01	7.70E-03	1.31E+03	4.19E-01	0.00E+00
IPA	67630	2.58E-01	2.10E+01	3.25E-02	3.02E-04	5.03E+01	1.64E-02	0.00E+00

Adhesive Material Application Operation

F. RULE 1200 TOXICS EVALUATION

EMISSION POINT DATA Determine if your emission source(s) are ducted sources or if they are unducted/fugitive sources and provide the necessary data below.

1. **Ducted or Stack Emissions** (e.g. an exhaust pipe or stack, a roof ventilation duct, etc.)

Parameter	Point #1	Point #2	Point #3	Point #4	Point #5	Point #6
Height of exhaust above ground (ft)	31					
Stack diameter (or length width) (ft)	42"					
Exhaust gas flow (actual cfm) Max/Min	N/A					
Is exhaust vertical (Yes or No)	Yes					
Exhaust type (unobstructed, flapper,raincap)	Flapper					
Distance to Property Line (±10 ft)	41' 3"					

2. **Unducted Emissions** (e.g. anything not emitted through a duct, pipe, or stack, for instance, an open window or an outdoor area)
Are any materials applied outside of the spray booth (e.g. surface prep and polyester resins)? (●) No ( ) Yes, *describe how unducted vapors, and/or particles get into the outside air. Provide a brief description of the process or operation for each unducted emission point.*
If unducted emissions come out of the building openings such as doors, bays or windows, estimate the **size of the opening** (example – 3 ft x 4 ft window).

_____

_____

If unducted emissions originate outside your buildings, estimate the **size of the emission zone** (example – paint spraying 2' x 2' x 2' bread boxes).

_____

_____

RECEPTOR DATA provide the distance from the emission point to the nearest property line of the nearest residence and to the nearest business. If another business is located on the same property as the emission point but is not under common ownership, include the distance to this business.

Distance to nearest residence: ~500 ft Distance to nearest business: ~35 ft

PLOT PLAN Please also provide a **facility plot plan or diagram** (need not be to scale as long as the distances of key features from reference points are shown) showing the location of emission point(s) at the facility, property lines, and the **location and dimensions of buildings** (estimated height, width, and length) that are closer than 100 ft. from the emission point. This diagram helps by making it possible for the District to efficiently set up the inputs for health risk evaluation. Inaccurate information may adversely affect the outcome of the evaluation.

Name of Preparer: Chantal Eivaz **Title:** Environmental Engineer

Phone No.: (619) 917-9497 **E-mail:** chantal.m.eivaz@lmco.com

NOTE TO APPLICANT:

Before acting on an application for Authority to Construct or Permit to Operate, the District may require further information, plans, or specifications. Forms with insufficient information may be returned to the applicant for completion, which will cause a delay in application processing and may increase processing fees. The applicant should correspond with equipment and material manufacturers to obtain the information requested on this supplemental form

HARP2 - HRACalc (dated 22118) 3/25/2024 11:40:58 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\8026_Lockheed\RAST\Resident_CancerRisk.csv
Calculating chronic risk
Chronic risk saved to: D:\1200\8026_Lockheed\RAST\Resident_NCChronicRisk.csv
Calculating acute risk
Acute risk saved to: D:\1200\8026_Lockheed\RAST\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	493416.6	3603921.3	20.4	9.45	-0.00	8.87	1.07	YES	YES	NO	

*** AERMOD - VERSION 23132 *** *** C:\Users\breeve\OneDrive - County of San Diego\HDrive\Modeling Proje *** 03/21/24
*** AERMET - VERSION 22112 *** *** *** 16:28:11
PAGE 1

*** 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 = 331287.0 ; 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
     * 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   17933 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:  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) =    53.00 ;  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 = 5.5 MB of RAM.

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

**Detailed Error/Message File: 8026_Lockheed.err
**File for Summary of Results: 8026_Lockheed.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
```

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:   ..\..\..\Meteorology Documents\AERMET Files\AERMET 22112 PROJECTS\CVA\CVA_2010_2   Met Version:  22112
  Profile file:   ..\..\..\Meteorology Documents\AERMET Files\AERMET 22112 PROJECTS\CVA\CVA_2010_2
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    23188                  Upper air station no.:     3190
                Name: SAN_DIEGO/LINDBERGH_FIELD                  Name: UNKNOWN
                Year:   2010                                     Year:   2010

 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 10 01 01   1 01   -1.0  0.031 -9.000 -9.000 -999.   13.      2.6  0.03   0.98   1.00    0.89   48.   10.0  283.1   10.0
 10 01 01   1 02   -1.0  0.030 -9.000 -9.000 -999.   13.      2.6  0.03   0.98   1.00    0.89   62.   10.0  283.1   10.0
 10 01 01   1 03   -1.0  0.031 -9.000 -9.000 -999.   13.      2.6  0.03   0.98   1.00    0.89   45.   10.0  282.5   10.0
 10 01 01   1 04   -1.0  0.030 -9.000 -9.000 -999.   13.      2.6  0.03   0.98   1.00    0.89   79.   10.0  281.9   10.0
 10 01 01   1 05   -0.2  0.015 -9.000 -9.000 -999.    4.      1.3  0.03   0.98   1.00    0.44  356.   10.0  280.8   10.0
 10 01 01   1 06   -1.0  0.031 -9.000 -9.000 -999.   13.      2.6  0.03   0.98   1.00    0.89   45.   10.0  280.8   10.0
 10 01 01   1 07   -0.8  0.031 -9.000 -9.000 -999.   13.      3.3  0.03   0.98   1.00    0.89   47.   10.0  281.9   10.0
 10 01 01   1 08   -0.6  0.030 -9.000 -9.000 -999.   13.      4.3  0.03   0.98   0.49    0.89   78.   10.0  282.5   10.0
 10 01 01   1 09   19.1  0.086  0.293  0.014   47.   61.     -3.1  0.03   0.98   0.30    0.89   24.   10.0  286.4   10.0
 10 01 01   1 10   60.3  0.098  0.561  0.010  106.   73.     -1.4  0.03   0.98   0.23    0.89  351.   10.0  288.1   10.0
 10 01 01   1 11   59.0  0.158  0.715  0.009  224.  150.     -6.0  0.03   0.98   0.21    1.78  311.   10.0  290.8   10.0
 10 01 01   1 12   67.1  0.189  0.858  0.008  341.  197.     -9.1  0.03   0.98   0.20    2.23  313.   10.0  292.5   10.0
 10 01 01   1 13   66.4  0.159  0.922  0.008  427.  153.     -5.5  0.03   0.98   0.20    1.78  305.   10.0  293.6   10.0
 10 01 01   1 14   57.3  0.187  0.919  0.008  490.  193.    -10.2  0.03   0.98   0.21    2.23  278.   10.0  294.8   10.0
 10 01 01   1 15   38.8  0.237  0.827  0.008  526.  277.    -31.0  0.03   0.98   0.24    3.12  289.   10.0  293.1   10.0
 10 01 01   1 16   20.7  0.173  0.678  0.008  543.  174.    -22.7  0.03   0.98   0.33    2.23  296.   10.0  291.4   10.0
 10 01 01   1 17   -1.5  0.046 -9.000 -9.000 -999.   46.      5.7  0.03   0.98   0.60    1.34  337.   10.0  291.4   10.0
 10 01 01   1 18   -1.6  0.046 -9.000 -9.000 -999.   23.      5.4  0.03   0.98   1.00    1.34  337.   10.0  290.3   10.0
 10 01 01   1 19   -0.2  0.015 -9.000 -9.000 -999.    5.      1.8  0.03   0.98   1.00    0.44  252.   10.0  288.6   10.0
 10 01 01   1 20   -0.2  0.015 -9.000 -9.000 -999.    4.      1.8  0.03   0.98   1.00    0.44  113.   10.0  287.5   10.0
 10 01 01   1 21   -0.8  0.030 -9.000 -9.000 -999.   13.      3.3  0.03   0.98   1.00    0.89  122.   10.0  286.9   10.0
 10 01 01   1 22   -2.1  0.046 -9.000 -9.000 -999.   23.      4.0  0.03   0.98   1.00    1.34   99.   10.0  286.4   10.0
 10 01 01   1 23   -1.0  0.030 -9.000 -9.000 -999.   13.      2.6  0.03   0.98   1.00    0.89  331.   10.0  285.3   10.0
 10 01 01   1 24   -1.0  0.031 -9.000 -9.000 -999.   13.      2.6  0.03   0.98   1.00    0.89   40.   10.0  285.3   10.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 10 01 01 01   10.0 1   48.    0.89   283.2   30.0  -99.00    0.41

 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     118.46139 AT (  493499.60,  3603932.80,    18.91,    20.42,    0.00)  DC
          2ND HIGHEST VALUE IS     116.66122 AT (  493489.94,  3603932.74,    18.83,    20.51,    0.00)  DC
          3RD HIGHEST VALUE IS     116.50930 AT (  493470.62,  3603932.63,    18.77,    20.51,    0.00)  DC
          4TH HIGHEST VALUE IS     115.22423 AT (  493460.96,  3603932.57,    18.71,    20.33,    0.00)  DC
          5TH HIGHEST VALUE IS     115.04554 AT (  493480.28,  3603932.68,    18.77,    20.51,    0.00)  DC
          6TH HIGHEST VALUE IS     114.74008 AT (  493522.70,  3603894.57,    19.47,    19.47,    0.00)  DC
          7TH HIGHEST VALUE IS     113.49460 AT (  493520.92,  3603901.52,    19.23,    19.23,    0.00)  DC
          8TH HIGHEST VALUE IS     113.25378 AT (  493520.32,  3603907.08,    19.12,    19.12,    0.00)  DC
          9TH HIGHEST VALUE IS     113.23837 AT (  493519.72,  3603912.65,    19.07,    19.07,    0.00)  DC
         10TH HIGHEST VALUE IS     112.49425 AT (  493509.27,  3603932.85,    19.00,    19.00,    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 ***
```

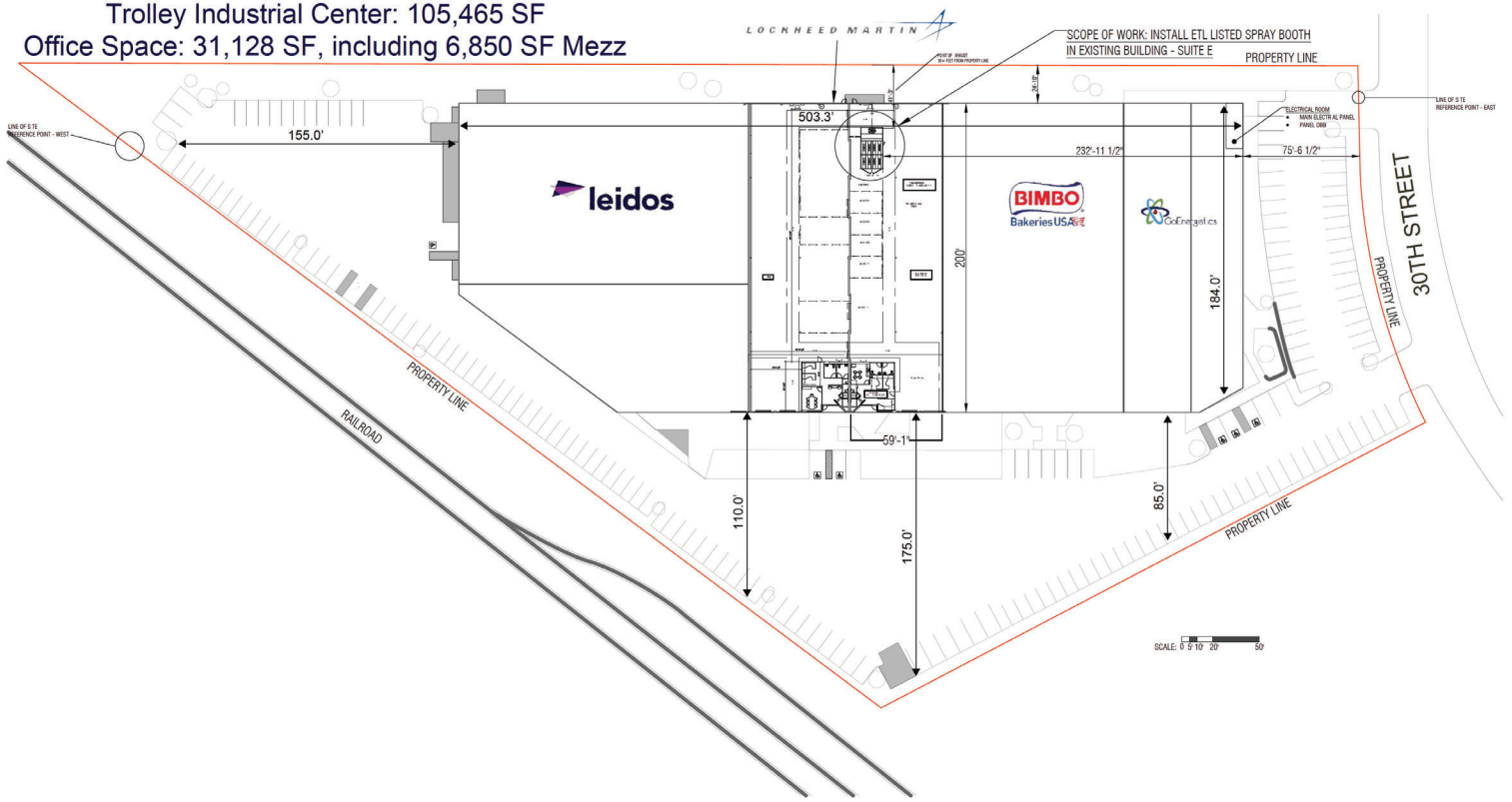
```
                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

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

ALL      HIGH   1ST HIGH VALUE IS    1547.41965  ON 12111802: AT (  493415.62,  3603811.10,    21.28,    21.28,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\Users\breeve\OneDrive - County of San Diego\HDrive\Modeling Proje ***        03/21/24
 *** AERMET - VERSION  22112 ***   ***                                                                     ***        16:28:11
                                                                                                                     PAGE   6
 *** 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            1 Warning Message(s)
 A Total of          456 Informational Message(s)

 A Total of        26304 Hours Were Processed

 A Total of          161 Calm Hours Identified

 A Total of          295 Missing Hours Identified (  1.12 Percent)


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

```
   ********   WARNING MESSAGES   ********
MX W403     101       PFLCNV: Turbulence data is being used w/o ADJ_U* option       SigA Data
```

NOTES:

1. SCOPE OF WORK: INSTALL (1) PREFABRICATED SPRAY BOOTH
2. POINT OF EXHAUST OF SPRAY BOOTHS TO BE MORE THAN 30' FROM PROPERTY LINE.
3. SPRAY BOOTH TO BE INSTALLED IN EXISTING WAREHOUSE - F1 OCCUPANCY.
4. SPRAY BOOTHS TO BE INSTALLED ON CEMENT FLOOR.
5. SPRAY BOOTHS ARE ETL LISTED
6. SPRAY BOOTH TO BE SPRINKLERED. SPRINKLER PERMITS TO BE PULLED ON SEPARATE PERMIT BY OTHERS.
7. PATH OF TRAVEL IS SHOWN.
8. FACILITY COMPLIES WITH ALL ADA REQUIREMENTS.
9. SPRAY BOOTH POINT OF EXHAUST TO BE 30' FROM PROPERTY LINE.
10. SPRAY BOOTH TO BE INSTALLED WITH 3' CLEARANCE AROUND THE BOOTH.

Trolley Industrial Center: 105,465 SF
Office Space: 31,128 SF, including 6,850 SF Mezz



APPROVAL SIGNATURE

REVISION	DATE:
DRAWN BY: MDB	DATE: 8/14/2023
SIZE D	SCALE DTS

DWG NO. LOCKHEED MARTIN BOOTH PLANS

TITLE: SITE PLAN

CUSTOMER NAME: LOCKHEED MARTIN RMS

ADDRESS: 1330 30TH ST. STE E SAN DIEGO, CA 92154

ENGINEER'S STAMP

Bar Industrial Development
8356 BELLA VISTA
ALTA LOMA, CA 91701
LIC#727856, TYPE B & C10, EXP. 9-30-2024

SHEET A-2.0

Amberg, Stephen

From: Reeve, Bill
Sent: Thursday, March 21, 2024 4:42 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: APCD2023-APP-008026
Attachments: APCD2023-APP-008026_exhaustType_flapper.pdf; APCD2023-APP-008026_propBoundary.pdf; APCD2023-APP-008026_Rule1200_generictoxics_112023 (1).xlsx; APCD2023-APP-008026 _toxicsForm.pdf; APCD2023-APP-008026_exhaustFlow.pdf

I have completed the modeling for Lockheed. The zipped modeling files are in 8026_Lockheed

-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: Wednesday, March 6, 2024 4:45 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: HRA request: APCD2023-APP-008026

Hello Bill and Tony,

Here is an HRA request. Please have the modeler post the results in Engineering - 8026_Lockheed - All Documents (sharepoint.com)

Let me know if you need more information.

Thank you,

John L.