APPENDIX 5.1D

Screening Health Risk Assessment

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Screening Health Risk Assessment

The screening level health risk assessment has been prepared using CARB's Hotspots Analysis and Reporting Program (HARP) computer program (Version 1.4, May 2008) and associated guidance in the OEHHA's *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (August 2003). The HARP model was used to assess cancer risk as well as chronic and acute risk impacts. The following paragraphs describe the procedures used to prepare this risk assessment.

Modeling Inputs

The risk assessment module of the HARP model was run using unit ground level impacts to obtain derived cancer risks for each toxic chemical of interest.[7] Cancer risks for residential receptors were obtained for the derived (OEHHA) method, while the derived (adjusted) method was used to derive risks for workers. The HARP model output was cancer risk by pollutant and route for each type of analysis, based on an exposure of 1.0 $\mu g/m^3$. HARP model output showing the unit values is included as Attachment 5.1D-1. Individual cancer risks are expressed in units of risk per $\mu g/m^3$ of exposure. To calculate the weighted risk for each source, the annual average emission rate in g/s for each pollutant was multiplied by the individual cancer risk for that pollutant in $(\mu g/m^3)^{-1}$. The resulting weighted cancer risks for each pollutant were then summed for the source. An identical approach was used to determine the acute and chronic health impacts associated with the proposed project. Details of the calculations of risk "rates" for modeling are shown in Tables 5.1D-2 through 5.1D-5 (provided at the end of this section).

Risk Analysis Method

The results of the turbine screening analysis (see Appendix 5.1B, Table 5.1B-3) were used to determine the worst-case full load operating conditions for modeling for the annual and 1-hour averaging periods, used in determining cancer risk and chronic HHI, and acute HHI, respectively. The total weighted risk "rate" for each source was used in place of emission rates in the modeling analysis. The weighted risk "rates" used for the HRA modeling are summarized in Table 5.1D-6 (at the end of this section). The calculated value was then total cancer risk at each receptor. As discussed in Section 5.1.5.6, the screening analysis for the criteria pollutant modeling analysis was performed using the AERMOD model, the 2000 through 2004 Stockton meteorological data, and specific receptor grids. The exhaust characteristics for the highest full-load annual average unit impact from the screening analysis, Case 7, was used to model cancer risks from the CTG/HRSG for the proposed project.

The contribution of each toxic compound to total cancer risk and total HHI for each analysis method was then determined using the individual contribution of each compound to the total weighted risk "rate."

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[7] Procedure is described in Part B of Topic 8 of the HARP How-To Guides: How to Perform Health Analyses Using a Ground Level Concentration.

Summary of Results

The results of the screening level health risk assessment are summarized in Table 5.1D-1.

Table 5.1D-1
Screening Level Risk Assessment Results

Risk Methodology	Lodi Energy Center
Modeled Residential Cancer Risk (in one million)	
Residential: Derived (adjusted) Method	0.43
Modeled Worker Cancer Risk (in one million)	
Worker Exposure: Derived (OEHHA) Method	0.045
Modeled Acute and Chronic Impacts	
Acute HHI	0.05
Chronic HHI	0.008

As shown in Table 5.1D-1, the cancer risk from the project is below the significance level of 10 in one million. In addition, the acute and chronic health hazard indices are well below the significance level of one. The analysis of potential cancer risk described in this section employs extremely conservative methods and assumptions, as follows:

- The analysis includes representative weather data over 5 years to ensure that the least favorable conditions producing the highest ground-level concentration of power plant emissions are included. The analysis then assumes that these worst-case weather conditions, which in reality occurred only once in 5 years, will occur every year for 70 years.
- The power plant is assumed to operate at hourly, daily, and annual emission conditions that produce the highest ground-level concentrations. In fact, the power plant is expected to operate at a variety of conditions that will produce lower emissions and impacts.
- The analysis assumes that a sensitive individual is at the location of the highest ground-level concentration of power plant emissions continuously over the entire 70-year period. In reality, people rarely live in their homes for 70 years, and even if they do, they leave their homes to attend school, go to work, go shopping, and so on.

The point of using these unrealistic assumptions is to consciously overstate the potential impacts. No one will experience exposures as great as those assumed for this analysis. By determining that even this highly overstated exposure will not be significant, there is a high degree of confidence that the much lower exposures that actual persons will experience will not result in a significant increase in cancer risk. In short, the analysis ensures that there will not be significant public health impacts at any location, under any weather condition, under any operating condition.

The locations of the maximum acute, chronic, and cancer risks are shown in Figure 5.1D-1.

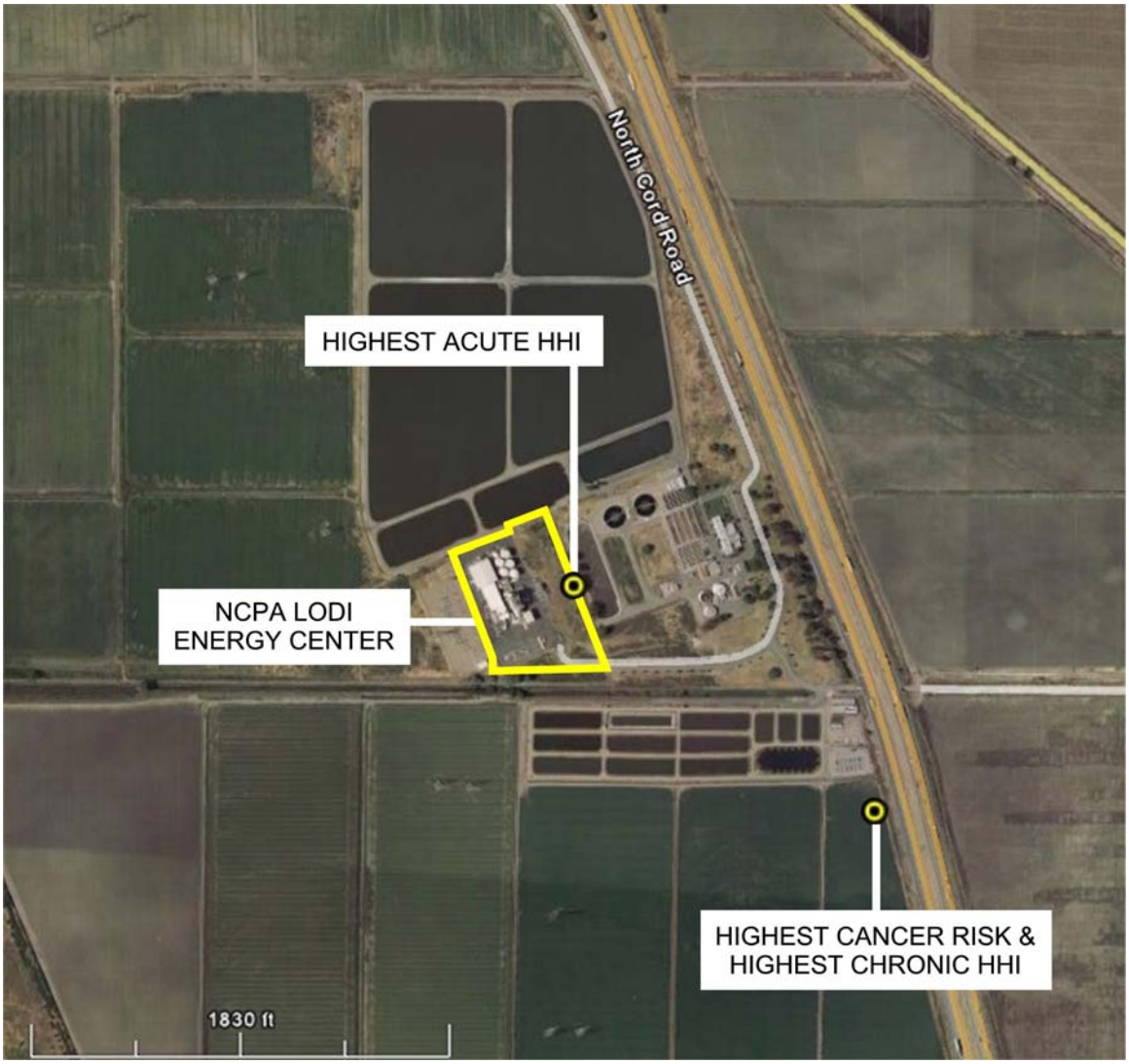

FIGURE 5.1D-1
Locations of Maximum Modeled Health Risks from the LEC Project

Table 5.1D-2
NCPA Lodi Energy Center
Calculation of Modeling Inputs for CTG/HRSG Cancer Risk Assessment

		Derived (OEHHA) Method		Worker Exp: Derived (OEHHA) Method	
Compound	Annual Average Emissions Per Engine g/s	Unit Risk (per ug/m3)	Cancer Risk Model Input (Note 2)	Unit Risk (per ug/m3)	Cancer Risk Model Input (Note 2)
Ammonia	3.29E+00	0	0	0	0
Propylene	9.43E-02	0	0	0	0
Acetaldehyde	4.91E-03	3.77E-06	1.85E-02	5.72E-07	2.81E-03
Acrolein	7.86E-04	0	0	0	0
Benzene	1.47E-03	3.77E-05	5.55E-02	5.72E-06	8.43E-03
1,3-Butadiene	5.28E-05	2.26E-04	1.19E-02	3.43E-05	1.81E-03
Ethylbenzene	3.93E-03	3.28E-06	0.01288522	0	0
Formaldehyde	8.72E-02	7.91E-06	6.89E-01	1.20E-06	1.05E-01
Hexane	3.17E-02	0	0	0	0
Naphthalene	1.60E-04	4.52E-05	7.21E-03	6.86E-06	1.09E-03
PAHs (Note 1)	3.85E-05	6.58E-02	2.53E+00	6.00E-03	2.31E-01
Propylene Oxide	5.84E-03	4.90E-06	2.86E-02	7.43E-07	4.34E-03
Toluene	1.60E-02	0	0	0	0
Xylene	7.86E-03	0	0	0	0
			3.36E+00		3.54E-01

Notes:
(1) Emission rates for individual PAHs weighted by risk relative to B(a)P. See Table 5.1A-8.
(2) Units are (g/s)/(ug/m3).

Table 5.1D-3
NCPA Lodi Energy Center
Calculation of Modeling Inputs and HHIs for CTG Acute and Chronic Risk Assessment

	Acute Health Impacts			Chronic Health Impacts		
Compound	Max Hourly Emissions Per Engine g/s	HARP Acute HI (per ug/m3)	Acute HHI Model Input (Note 1)	Annual Average Emissions, g/s	HARP Chronic HI (per ug/m3)	Chronic HHI Model Input (Note 1)
Ammonia	3.56E+00	3.13E-04	1.11E-03	3.289	5.00E-03	1.64E-02
Propylene	2.04E-01	--	--	0.094	3.33E-04	3.14E-05
Acetaldehyde	1.06E-02	--	--	4.91E-03	1.11E-01	5.45E-04
Acrolein	1.70E-03	5.26E+00	8.94E-03	7.86E-04	1.67E+01	1.31E-02
Benzene	3.19E-03	7.69E-04	2.45E-06	1.47E-03	1.67E-02	2.46E-05
1,3-Butadiene	1.14E-04	--	--	5.28E-05	5.00E-02	--
Ethylbenzene	8.50E-03	--	--	3.93E-03	5.00E-04	1.96E-06
Formaldehyde	1.89E-01	1.06E-02	2.00E-03	8.72E-02	3.33E-01	2.90E-02
Hexane	6.85E-02	--	--	3.17E-02	1.43E-04	4.53E-06
Naphthalene	3.45E-04	--	--	1.60E-04	1.11E-01	1.77E-05
PAHs	8.33E-05	--	--	3.85E-05	--	--
Propylene Oxide	1.26E-02	3.23E-04	4.08E-06	5.84E-03	3.33E-02	1.95E-04
Toluene	3.45E-02	2.70E-05	9.32E-07	1.60E-02	3.33E-03	5.31E-05
Xylene	1.70E-02	4.55E-05	7.73E-07	7.86E-03	1.43E-03	1.12E-05
		Total =	1.21E-02		Total =	5.95E-02

Notes:
(1) Units are (g/s)/(ug/m3).

Table 5.1D-4
NCPA Lodi Energy Center
Cancer Risk Assessment Modeling Inputs for Aux Boiler

		Derived (OEHHA) Method		Worker Exp: Derived (OEHHA) Method	
Compound	Annual Average Emissions, g/s	Unit Risk (per ug/m3)	Cancer Risk Model Input (Note 2)	Unit Risk (per ug/m3)	Cancer Risk Model Input (Note 2)
Ammonia	--	0	0	0	0
Propylene	2.31E-04	0	0	0	0
Acetaldehyde	1.35E-06	3.77E-06	5.09E-06	5.72E-07	7.72E-07
Acrolein	1.18E-06	0	0	0	0
Benzene	2.53E-06	3.77E-05	9.53E-05	5.72E-06	1.45E-05
1,3-Butadiene	--	2.26E-04	0	3.43E-05	0
Ethylbenzene	3.01E-06	3.28E-06	9.8593E-06	0	0
Formaldehyde	5.36E-06	7.91E-06	4.24E-05	1.20E-06	6.43E-06
Hexane	2.00E-06	0	0	0	0
Naphthalene	1.31E-07	4.52E-05	5.91E-06	6.86E-06	8.97E-07
PAHs (Note 1)	4.36E-08	6.58E-02	2.87E-03	6.00E-03	2.61E-04
Propylene Oxide	--	4.90E-06	0	7.43E-07	0
Toluene	1.15E-05	0	0	0	0
Xylene	8.58E-06	0	0	0	0
			3.02E-03 per ug/m3		2.84E-04 per ug/m3

Notes:
(1) Unit risk for PAHs based on benzo(a)pyrene.
(2) Units are (g/s)/(ug/m3).

Table 5.1D-5
NCPA Lodi Energy Center
Calculation of Modeling Inputs and HHIs for Aux Boiler Acute and Chronic Risk Assessment

	Acute Health Impacts			Chronic Health Impacts		
Compound	Max Hourly Emissions, g/s	HARP Acute HI (per ug/m3)	Acute HHI Model Input (Note 1)	Annual Average Emissions, g/s	HARP Chronic HI (per ug/m3)	Chronic HHI Model Input (Note 1)
Propylene	4.32E-03	--	--	2.31E-04	3.33E-04	7.69E-08
Acetaldehyde	2.53E-05	--	--	1.35E-06	1.11E-01	1.50E-07
Acrolein	2.20E-05	5.26E+00	1.16E-04	1.18E-06	1.67E+01	1.96E-05
Benzene	4.73E-05	7.69E-04	3.64E-08	2.53E-06	1.67E-02	4.22E-08
1,3-Butadiene	--	--	--	--	5.00E-02	--
Ethylbenzene	5.63E-05	--	--	3.01E-06	5.00E-04	1.50E-09
Formaldehyde	1.00E-04	1.06E-02	1.06E-06	5.36E-06	3.33E-01	1.78E-06
Hexane	3.75E-05	--	--	2.00E-06	1.43E-04	2.87E-10
Naphthalene	2.45E-06	--	--	1.31E-07	1.11E-01	1.45E-08
PAHs	8.16E-07	--	--	4.36E-08	--	--
Propylene Oxide	--	3.23E-04	--	--	3.33E-02	--
Toluene	2.16E-04	2.70E-05	5.84E-09	1.15E-05	3.33E-03	3.84E-08
Xylene	1.61E-04	4.55E-05	7.31E-09	8.58E-06	1.43E-03	1.23E-08
		Total =	1.17E-04		Total =	2.18E-05

Notes:
(1) Units are (g/s)/(ug/m3).

Table 5.1D-6
NCPA Lodi Energy Center
Summary of Modeling Input Values for Screening HRA

Unit	Derived (OEHHA) Method Cancer Risk (Res)	Derived (OEHHA) Method Cancer Risk (Worker)	Chronic HHI Model Input	Acute HHI Model Input
CTG/HRSG	3.359E+00	3.542E-01	5.947E-02	1.206E-02
Auxiliary Boiler	3.025E-03	2.839E-04	2.176E-05	1.170E-04

Stack Parameters				
	Stack Diam (m)	Stack Ht (m)	Exhaust Temp (deg K)	Exhaust Velocity (m/s)
CTG/HRSG	5.779	45.720	360.778	17.466
Auxiliary Boiler	0.914	12.192	463.556	14.997

Attachment 5.1D-1

HARP Model Risk Assessment Module Output

This file: c:\HARP\projects\demo\der OEHHA cancer.txt

Created by HARP Version 1.4 Build 23.06.09
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 6/29/2008 3:42:27 PM

EXCEPTION REPORT
   (there have been no changes or exceptions)

INPUT FILES:
   Source-Receptor file:
   Averaging period adjustment factors file: not applicable
   Emission rates file: none
   Site parameters file: C:\HARP\PROJECTS\DEMO\LEC.sit

GLC DATA SOURCE:
  concentrations loaded from file C:\HARP\PROJECTS\DEMO\LEC.CML
  User memo:

Screening mode is OFF

Exposure Duration: 70 year (adult resident)
Analysis Method: Derived (OEHHA) Method
Health Effect: Cancer

SITE PARAMETERS

DEPOSITION

   Deposition rate (m/s)   0.02

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

HUMAN INGESTION
Fraction of ingested leafy vegetable
from home grown source 0.15
Fraction of ingested exposed vegetable
from home grown source 0.15
Fraction of ingested protected vegetable
from home grown source 0.15
Fraction of ingested root vegetable
from home grown source 0.15

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway enabled ***

SOIL INGESTION

*** Pathway enabled ***

MOTHER'S MILK

*** Pathway enabled ***

CHEMICAL GROUND LEVEL CONCENTRATIONS (micrograms/m^3) (*** indicates not a multipathway chemical)

ABBREV	CAS	GLC Avrg	GLC Max	GLC Water	GLC Pasture	GLC Fish
Acetaldehyde	75070	1.000E+00	1.000E+00	***	***	***
Acrolein	107028	1.000E+00	1.000E+00	***	***	***
NH3	7664417	1.000E+00	1.000E+00	***	***	***
Benzene	71432	1.000E+00	1.000E+00	***	***	***
1,3-Butadiene	106990	1.000E+00	1.000E+00	***	***	***
DieselExhPM	9901	1.000E+00	1.000E+00	***	***	***
Formaldehyde	50000	1.000E+00	1.000E+00	***	***	***
Hexane	110543	1.000E+00	1.000E+00	***	***	***
B[a]anthracene	56553	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[a]P	50328	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[b]fluoranthen	205992	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[k]fluoranthen	207089	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Chrysene	218019	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
In[1,2,3-cd]pyr	193395	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Naphthalene	91203	1.000E+00	1.000E+00	***	***	***
Propylene	115071	1.000E+00	1.000E+00	***	***	***

Propylene Oxide	75569	1.000E+00	1.000E+00	***	***	***
Toluene	108883	1.000E+00	1.000E+00	***	***	***
Ethyl Benzene	100414	1.000E+00	1.000E+00	***	***	***
Anthracene	120127	1.000E+00	1.000E+00	***	***	***
D[a,h]anthracen	53703	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Xylenes	1330207	1.000E+00	1.000E+00	***	***	***

CHEMICAL CROSS-REFERENCE TABLE

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0002	107028	Acrolein	Acrolein	0.000E+00
0003	7664417	NH3	Ammonia	0.000E+00
0004	71432	Benzene	Benzene	0.000E+00
0005	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0006	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0007	50000	Formaldehyde	Formaldehyde	0.000E+00
0008	110543	Hexane	Hexane	0.000E+00
0009	56553	B[a]anthracene	Benz[a]anthracene	0.000E+00
0010	50328	B[a]P	Benzo[a]pyrene	0.000E+00
0011	205992	B[b]fluoranthen	Benzo[b]fluoranthene	0.000E+00
0012	207089	B[k]fluoranthen	Benzo[k]fluoranthene	0.000E+00
0013	218019	Chrysene	Chrysene	0.000E+00
0014	193395	In[1,2,3-cd]pyr	Indeno[1,2,3-cd]pyrene	0.000E+00
0015	91203	Naphthalene	Naphthalene	0.000E+00
0016	115071	Propylene	Propylene	0.000E+00
0017	75569	Propylene Oxide	Propylene oxide	0.000E+00
0018	108883	Toluene	Toluene	0.000E+00

```
0019  100414     Ethyl Benzene   Ethyl benzene
0.000E+00
0020  120127     Anthracene      Anthracene
0.000E+00
0021  53703      D[a,h]anthracen Dibenz[a,h]anthracene
0.000E+00
0022  1330207    Xylenes         Xylenes (mixed)
0.000E+00

EMISSIONS DATA SOURCE:
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=   DEV=   PRO=   STK=   NAME=
SOURCE MULTIPLIER=
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)

EMISSIONS FOR FACILITY FAC=   DEV=   PRO=   STK=   NAME=
SOURCE MULTIPLIER=
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
```

EMISSIONS FOR FACILITY FAC= DEV= PRO= STK= NAME=
SOURCE MULTIPLIER=

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)

DOMINANT PATHWAYS FOR CANCER

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG
0001	YES	-	-	-	-	-	-	-	-	-	-	-
0002	-	-	-	-	-	-	-	-	-	-	-	-
0003	-	-	-	-	-	-	-	-	-	-	-	-
0004	YES	-	-	-	-	-	-	-	-	-	-	-
0005	YES	-	-	-	-	-	-	-	-	-	-	-
0006	YES	-	-	-	-	-	-	-	-	-	-	-
0007	YES	-	-	-	-	-	-	-	-	-	-	-
0008	-	-	-	-	-	-	-	-	-	-	-	-
0009	-	YES	-	-	-	-	YES	-	-	-	-	-
0010	-	YES	-	-	-	-	YES	-	-	-	-	-
0011	-	YES	-	-	-	-	YES	-	-	-	-	-
0012	-	YES	-	-	-	-	YES	-	-	-	-	-
0013	-	YES	-	-	-	-	YES	-	-	-	-	-
0014	-	YES	-	-	-	-	YES	-	-	-	-	-
0015	YES	-	-	-	-	-	-	-	-	-	-	-
0016	-	-	-	-	-	-	-	-	-	-	-	-
0017	YES	-	-	-	-	-	-	-	-	-	-	-
0018	-	-	-	-	-	-	-	-	-	-	-	-
0019	YES	-	-	-	-	-	-	-	-	-	-	-

0020	-	-	-	-	-	-	-	-	-	-	-	-
0021	-	YES	-	-	-	-	YES	-	-	-	-	-
0022	-	-	-	-	-	-	-	-	-	-	-	-

DERIVED DOSE BY PATHWAY (mg/(kg-d)) FOR CANCER CALCULATIONS

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG
0001	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0002	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0003	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0004	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0005	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0006	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0007	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0008	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0009	2.60E-04	1.12E-03	1.68E-04	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0010	2.60E-04	1.12E-03	1.68E-04	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0011	2.60E-04	1.12E-03	1.68E-04	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0012	2.60E-04	1.12E-03	1.68E-04	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0013	2.60E-04	1.12E-03	1.68E-04	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0014	2.60E-04	1.12E-03	1.68E-04	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0015	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0016	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0017	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0018	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0019	3.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0020	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0021	2.60E-04	1.12E-03	1.68E-04	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0022	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

DERIVED CANCER RISK

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL
0001	3.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-06
0002	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0003	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0004	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
0005	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
0006	4.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-04
0007	7.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06

0008 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00
0009 1.01E-04 1.35E-03 2.02E-04 0.00E+00 0.00E+00 0.00E+00 4.93E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 6.48E-03 6.58E-03
0010 1.01E-03 1.35E-02 2.02E-03 0.00E+00 0.00E+00 0.00E+00 4.93E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 6.48E-02 6.58E-02
0011 1.01E-04 1.35E-03 2.02E-04 0.00E+00 0.00E+00 0.00E+00 4.93E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 6.48E-03 6.58E-03
0012 1.01E-04 1.35E-03 2.02E-04 0.00E+00 0.00E+00 0.00E+00 4.93E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 6.48E-03 6.58E-03
0013 1.01E-05 1.35E-04 2.02E-05 0.00E+00 0.00E+00 0.00E+00 4.93E-04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 6.48E-04 6.58E-04
0014 1.01E-04 1.35E-03 2.02E-04 0.00E+00 0.00E+00 0.00E+00 4.93E-03 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 6.48E-03 6.58E-03
0015 4.52E-05 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 4.52E-05
0016 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00
0017 4.90E-06 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 4.90E-06
0018 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00
0019 3.28E-06 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 3.28E-06
0020 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00
0021 1.07E-03 4.60E-03 6.90E-04 0.00E+00 0.00E+00 0.00E+00 1.68E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 2.21E-02 2.32E-02
0022 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00
SUM 3.24E-03 2.36E-02 3.54E-03 0.00E+00 0.00E+00 0.00E+00 8.64E-02 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 1.14E-01 1.17E-01

This file: c:\HARP\projects\demo\der OEHHA worker.txt

Created by HARP Version 1.4 Build 23.06.09
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 6/29/2008 3:59:29 PM

EXCEPTION REPORT
   (there have been no changes or exceptions)

INPUT FILES:
   Source-Receptor file:
   Averaging period adjustment factors file: not applicable
   Emission rates file: none
   Site parameters file: C:\HARP\PROJECTS\DEMO\LEC.sit

GLC DATA SOURCE:
  concentrations loaded from file C:\HARP\PROJECTS\DEMO\LEC.CML
  User memo:

Screening mode is OFF

Exposure Duration: Standard work schedule (49 wks/yr, 5 days/wk, 8 hrs/day, 40 yrs)
Analysis Method: Point estimate
Health Effect: Cancer

SITE PARAMETERS

DEPOSITION

   Deposition rate (m/s)   0.02

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

   HUMAN INGESTION
   Fraction of ingested leafy vegetable
     from home grown source   0.15
   Fraction of ingested exposed vegetable
     from home grown source   0.15
   Fraction of ingested protected vegetable
     from home grown source   0.15
   Fraction of ingested root vegetable
     from home grown source   0.15

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway enabled ***

SOIL INGESTION

*** Pathway enabled ***

MOTHER'S MILK

*** Pathway enabled ***

CHEMICAL GROUND LEVEL CONCENTRATIONS (micrograms/m^3) (*** indicates not a multipathway chemical)

ABBREV	CAS	GLC Avrg	GLC Max	GLC Water	GLC Pasture	GLC Fish
Acetaldehyde	75070	1.000E+00	1.000E+00	***	***	***
Acrolein	107028	1.000E+00	1.000E+00	***	***	***
NH3	7664417	1.000E+00	1.000E+00	***	***	***
Benzene	71432	1.000E+00	1.000E+00	***	***	***
1,3-Butadiene	106990	1.000E+00	1.000E+00	***	***	***
DieselExhPM	9901	1.000E+00	1.000E+00	***	***	***
Formaldehyde	50000	1.000E+00	1.000E+00	***	***	***
Hexane	110543	1.000E+00	1.000E+00	***	***	***
B[a]anthracene	56553	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[a]P	50328	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[b]fluoranthen	205992	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[k]fluoranthen	207089	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Chrysene	218019	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
In[1,2,3-cd]pyr	193395	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Naphthalene	91203	1.000E+00	1.000E+00	***	***	***
Propylene	115071	1.000E+00	1.000E+00	***	***	***
Propylene Oxide	75569	1.000E+00	1.000E+00	***	***	***
Toluene	108883	1.000E+00	1.000E+00	***	***	***
Ethyl Benzene	100414	1.000E+00	1.000E+00	***	***	***
Anthracene	120127	1.000E+00	1.000E+00	***	***	***
D[a,h]anthracen	53703	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Xylenes	1330207	1.000E+00	1.000E+00	***	***	***

USER-DEFINED WORKER ADJUSTMENT AND EXPOSURE PARAMETERS

GLC Adjustment Factor: 1
Exposure Duration (years): 40
Exposure Frequency (days/year): 245
Explanatory Note: Default

CHEMICAL CROSS-REFERENCE TABLE

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0002	107028	Acrolein	Acrolein	0.000E+00
0003	7664417	NH3	Ammonia	0.000E+00
0004	71432	Benzene	Benzene	0.000E+00
0005	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0006	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0007	50000	Formaldehyde	Formaldehyde	0.000E+00
0008	110543	Hexane	Hexane	0.000E+00
0009	56553	B[a]anthracene	Benz[a]anthracene	0.000E+00
0010	50328	B[a]P	Benzo[a]pyrene	0.000E+00
0011	205992	B[b]fluoranthen	Benzo[b]fluoranthene	0.000E+00
0012	207089	B[k]fluoranthen	Benzo[k]fluoranthene	0.000E+00
0013	218019	Chrysene	Chrysene	0.000E+00
0014	193395	In[1,2,3-cd]pyr	Indeno[1,2,3-cd]pyrene	0.000E+00

0015	91203	Naphthalene	Naphthalene	0.000E+00
0016	115071	Propylene	Propylene	0.000E+00
0017	75569	Propylene Oxide	Propylene oxide	0.000E+00
0018	108883	Toluene	Toluene	0.000E+00
0019	100414	Ethyl Benzene	Ethyl benzene	0.000E+00
0020	120127	Anthracene	Anthracene	0.000E+00
0021	53703	D[a,h]anthracen	Dibenz[a,h]anthracene	0.000E+00
0022	1330207	Xylenes	Xylenes (mixed)	0.000E+00

EMISSIONS DATA SOURCE:
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC= DEV= PRO= STK= NAME=
SOURCE MULTIPLIER=

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)

EMISSIONS FOR FACILITY FAC= DEV= PRO= STK= NAME=
SOURCE MULTIPLIER=

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)

EMISSIONS FOR FACILITY FAC= DEV= PRO= STK= NAME=
SOURCE MULTIPLIER=

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)

EMISSIONS FOR FACILITY FAC= DEV= PRO= STK= NAME=
SOURCE MULTIPLIER=

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)

AVERAGE DOSE BY PATHWAY (mg/(kg-d)) FOR CANCER CALCULATIONS

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG
0001	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0002	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0003	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0004	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0005	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0006	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0007	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0008	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0009	5.72E-05	4.26E-04	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0010	5.72E-05	4.26E-04	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0011	5.72E-05	4.26E-04	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0012	5.72E-05	4.26E-04	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0013	5.72E-05	4.26E-04	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0014	5.72E-05	4.26E-04	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0015	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0016	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0017	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0018	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0019	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0020	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0021	5.72E-05	4.26E-04	5.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0022	5.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

AVERAGE CANCER RISK

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG	MEAT	ORAL	TOTAL
0001	5.72E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-07
0002	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0003	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0004	5.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-06
0005	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
0006	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
0007	1.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-06
0008	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0009	2.23E-05	5.12E-04	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	6.00E-04
0010	2.23E-04	5.12E-03	6.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-03	6.00E-03

0011	2.23E-05	5.12E-04	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	6.00E-04
0012	2.23E-05	5.12E-04	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	6.00E-04
0013	2.23E-06	5.12E-05	6.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-05	6.00E-05
0014	2.23E-05	5.12E-04	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	6.00E-04
0015	6.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E-06
0016	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0017	7.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-07
0018	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0019	4.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-07
0020	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0021	2.34E-04	1.75E-03	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-03	2.21E-03
0022	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SUM	6.61E-04	8.96E-03	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	1.08E-02

This file: c:\HARP\projects\demo\der OEHHA acute.txt

Created by HARP Version 1.4 Build 23.06.09
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 6/30/2008 1:13:37 PM

EXCEPTION REPORT
(there have been no changes or exceptions)

INPUT FILES:
Source-Receptor file:
Averaging period adjustment factors file: not applicable
Emission rates file: none
Site parameters file: C:\HARP\PROJECTS\DEMO\LEC.sit

GLC DATA SOURCE:
concentrations loaded from file C:\HARP\PROJECTS\DEMO\LEC.CML
User memo:

Screening mode is OFF

Exposure Duration: resident
Analysis Method: Derived (OEHHA) Method
Health Effect: Acute

CHEMICAL GROUND LEVEL CONCENTRATIONS (micrograms/m^3) (*** indicates not a multipathway chemical)

ABBREV	CAS	GLC Avrg	GLC Max	GLC Water	GLC Pasture	GLC Fish
Acetaldehyde	75070	1.000E+00	1.000E+00	***	***	***
Acrolein	107028	1.000E+00	1.000E+00	***	***	***
NH3	7664417	1.000E+00	1.000E+00	***	***	***
Benzene	71432	1.000E+00	1.000E+00	***	***	***
1,3-Butadiene	106990	1.000E+00	1.000E+00	***	***	***
DieselExhPM	9901	1.000E+00	1.000E+00	***	***	***
Formaldehyde	50000	1.000E+00	1.000E+00	***	***	***
Hexane	110543	1.000E+00	1.000E+00	***	***	***
B[a]anthracene	56553	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[a]P	50328	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[b]fluoranthen	205992	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[k]fluoranthen	207089	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Chrysene	218019	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
In[1,2,3-cd]pyr	193395	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Naphthalene	91203	1.000E+00	1.000E+00	***	***	***
Propylene	115071	1.000E+00	1.000E+00	***	***	***
Propylene Oxide	75569	1.000E+00	1.000E+00	***	***	***
Toluene	108883	1.000E+00	1.000E+00	***	***	***
Ethyl Benzene	100414	1.000E+00	1.000E+00	***	***	***
Anthracene	120127	1.000E+00	1.000E+00	***	***	***
D[a,h]anthracen	53703	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Xylenes	1330207	1.000E+00	1.000E+00	***	***	***

CHEMICAL CROSS-REFERENCE TABLE

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0002	107028	Acrolein	Acrolein	0.000E+00
0003	7664417	NH3	Ammonia	0.000E+00
0004	71432	Benzene	Benzene	0.000E+00
0005	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0006	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0007	50000	Formaldehyde	Formaldehyde	0.000E+00

0008	110543	Hexane	Hexane	0.000E+00
0009	56553	B[a]anthracene	Benz[a]anthracene	0.000E+00
0010	50328	B[a]P	Benzo[a]pyrene	0.000E+00
0011	205992	B[b]fluoranthen	Benzo[b]fluoranthene	0.000E+00
0012	207089	B[k]fluoranthen	Benzo[k]fluoranthene	0.000E+00
0013	218019	Chrysene	Chrysene	0.000E+00
0014	193395	In[1,2,3-cd]pyr	Indeno[1,2,3-cd]pyrene	0.000E+00
0015	91203	Naphthalene	Naphthalene	0.000E+00
0016	115071	Propylene	Propylene	0.000E+00
0017	75569	Propylene Oxide	Propylene oxide	0.000E+00
0018	108883	Toluene	Toluene	0.000E+00
0019	100414	Ethyl Benzene	Ethyl benzene	0.000E+00
0020	120127	Anthracene	Anthracene	0.000E+00
0021	53703	D[a,h]anthracen	Dibenz[a,h]anthracene	0.000E+00
0022	1330207	Xylenes	Xylenes (mixed)	0.000E+00

EMISSIONS DATA SOURCE:
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC= DEV= PRO= STK= NAME=
SOURCE MULTIPLIER=

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)

EMISSIONS FOR FACILITY FAC= DEV= PRO= STK= NAME=
SOURCE MULTIPLIER=

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)

EMISSIONS FOR FACILITY FAC= DEV= PRO= STK= NAME=
SOURCE MULTIPLIER=

CAS	ABBREV	MULTIPLIER	BG (ug/m^3)	AVRG (lbs/yr)	MAX (lbs/hr)

ACUTE HI

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
0001	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0002	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E+00	0.00E+00	0.00E+00	5.26E+00
0003	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	3.13E-04
0004	0.00E+00	0.00E+00	0.00E+00	7.69E-04	0.00E+00	0.00E+00	0.00E+00	7.69E-04	0.00E+00	7.69E-04	0.00E+00	0.00E+00	7.69E-04	7.69E-04
0005	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0006	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0007	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-02	0.00E+00	1.06E-02	0.00E+00	0.00E+00	1.06E-02	0.00E+00	0.00E+00	1.06E-02
0008	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0009	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0010	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0011	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0012	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0013	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0014	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0015	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0016	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0017	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	3.23E-04	3.23E-04	0.00E+00	0.00E+00	3.23E-04
0018	0.00E+00	2.70E-05	0.00E+00	2.70E-05	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	2.70E-05	2.70E-05	0.00E+00	0.00E+00	2.70E-05
0019	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0020	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0021	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0022	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	4.55E-05
SUM	0.00E+00	2.70E-05	0.00E+00	1.12E-03	0.00E+00	5.27E+00	0.00E+00	1.14E-02	0.00E+00	1.12E-03	5.27E+00	0.00E+00	7.69E-04	5.27E+00

This file: c:\HARP\projects\demo\der OEHHA chron.txt

Created by HARP Version 1.4 Build 23.06.09
Uses ISC Version 99155
Uses BPIP (Dated: 04112)
Creation date: 6/30/2008 1:11:22 PM

EXCEPTION REPORT
   (there have been no changes or exceptions)

INPUT FILES:
   Source-Receptor file:
   Averaging period adjustment factors file: not applicable
   Emission rates file: none
   Site parameters file: C:\HARP\PROJECTS\DEMO\LEC.sit

GLC DATA SOURCE:
  concentrations loaded from file C:\HARP\PROJECTS\DEMO\LEC.CML
  User memo:

Screening mode is OFF

Exposure Duration: resident
Analysis Method: Derived (OEHHA) Method
Health Effect: Chronic

SITE PARAMETERS

DEPOSITION

   Deposition rate (m/s)   0.02

DRINKING WATER

*** Pathway disabled ***

FISH

*** Pathway disabled ***

PASTURE

*** Pathway disabled ***

HOME GROWN PRODUCE

   HUMAN INGESTION
   Fraction of ingested leafy vegetable
     from home grown source   0.15
   Fraction of ingested exposed vegetable
     from home grown source   0.15
   Fraction of ingested protected vegetable
     from home grown source   0.15
   Fraction of ingested root vegetable
     from home grown source   0.15

PIGS, CHICKENS AND EGGS

*** Pathway disabled ***

DERMAL ABSORPTION

*** Pathway enabled ***

SOIL INGESTION

*** Pathway enabled ***

MOTHER'S MILK

*** Pathway enabled ***

CHEMICAL GROUND LEVEL CONCENTRATIONS (micrograms/m^3) (*** indicates not a multipathway chemical)

ABBREV	CAS	GLC Avrg	GLC Max	GLC Water	GLC Pasture	GLC Fish
Acetaldehyde	75070	1.000E+00	1.000E+00	***	***	***
Acrolein	107028	1.000E+00	1.000E+00	***	***	***
NH3	7664417	1.000E+00	1.000E+00	***	***	***
Benzene	71432	1.000E+00	1.000E+00	***	***	***
1,3-Butadiene	106990	1.000E+00	1.000E+00	***	***	***
DieselExhPM	9901	1.000E+00	1.000E+00	***	***	***
Formaldehyde	50000	1.000E+00	1.000E+00	***	***	***
Hexane	110543	1.000E+00	1.000E+00	***	***	***
B[a]anthracene	56553	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[a]P	50328	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[b]fluoranthen	205992	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
B[k]fluoranthen	207089	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Chrysene	218019	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
In[1,2,3-cd]pyr	193395	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Naphthalene	91203	1.000E+00	1.000E+00	***	***	***
Propylene	115071	1.000E+00	1.000E+00	***	***	***
Propylene Oxide	75569	1.000E+00	1.000E+00	***	***	***
Toluene	108883	1.000E+00	1.000E+00	***	***	***
Ethyl Benzene	100414	1.000E+00	1.000E+00	***	***	***
Anthracene	120127	1.000E+00	1.000E+00	***	***	***
D[a,h]anthracen	53703	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Xylenes	1330207	1.000E+00	1.000E+00	***	***	***

CHEMICAL CROSS-REFERENCE TABLE

CHEM	CAS	ABBREVIATION	POLLUTANT NAME	BACKGROUND (ug/m^3)
0001	75070	Acetaldehyde	Acetaldehyde	0.000E+00
0002	107028	Acrolein	Acrolein	0.000E+00
0003	7664417	NH3	Ammonia	0.000E+00
0004	71432	Benzene	Benzene	0.000E+00
0005	106990	1,3-Butadiene	1,3-Butadiene	0.000E+00
0006	9901	DieselExhPM	Diesel engine exhaust, particulate matter (Diesel PM)	0.000E+00
0007	50000	Formaldehyde	Formaldehyde	0.000E+00
0008	110543	Hexane	Hexane	0.000E+00
0009	56553	B[a]anthracene	Benz[a]anthracene	0.000E+00
0010	50328	B[a]P	Benzo[a]pyrene	0.000E+00
0011	205992	B[b]fluoranthen	Benzo[b]fluoranthene	0.000E+00
0012	207089	B[k]fluoranthen	Benzo[k]fluoranthene	0.000E+00
0013	218019	Chrysene	Chrysene	0.000E+00
0014	193395	In[1,2,3-cd]pyr	Indeno[1,2,3-cd]pyrene	0.000E+00
0015	91203	Naphthalene	Naphthalene	0.000E+00
0016	115071	Propylene	Propylene	0.000E+00
0017	75569	Propylene Oxide	Propylene oxide	0.000E+00
0018	108883	Toluene	Toluene	0.000E+00
0019	100414	Ethyl Benzene	Ethyl benzene	0.000E+00
0020	120127	Anthracene	Anthracene	0.000E+00
0021	53703	D[a,h]anthracen	Dibenz[a,h]anthracene	0.000E+00

DOMINANT PATHWAYS FOR CHRONIC

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG
0001	YES	-	-	-	-	-	-	-	-	-	-	-
0002	YES	-	-	-	-	-	-	-	-	-	-	-
0003	YES	-	-	-	-	-	-	-	-	-	-	-
0004	YES	-	-	-	-	-	-	-	-	-	-	-
0005	YES	-	-	-	-	-	-	-	-	-	-	-
0006	YES	-	-	-	-	-	-	-	-	-	-	-
0007	YES	-	-	-	-	-	-	-	-	-	-	-
0008	YES	-	-	-	-	-	-	-	-	-	-	-
0009	YES	YES	-	-	-	-	YES	-	-	-	-	-
0010	YES	YES	-	-	-	-	YES	-	-	-	-	-
0011	YES	YES	-	-	-	-	YES	-	-	-	-	-
0012	YES	YES	-	-	-	-	YES	-	-	-	-	-
0013	YES	YES	-	-	-	-	YES	-	-	-	-	-
0014	YES	YES	-	-	-	-	YES	-	-	-	-	-
0015	YES	-	-	-	-	-	-	-	-	-	-	-
0016	YES	-	-	-	-	-	-	-	-	-	-	-
0017	YES	-	-	-	-	-	-	-	-	-	-	-
0018	YES	-	-	-	-	-	-	-	-	-	-	-
0019	YES	-	-	-	-	-	-	-	-	-	-	-
0020	YES	-	-	-	-	-	-	-	-	-	-	-
0021	YES	YES	-	-	-	-	YES	-	-	-	-	-
0022	YES	-	-	-	-	-	-	-	-	-	-	-

INHALATION CONCENTRATION (ug/m^3) AND DERIVED DOSE BY PATHWAY (mg/(kg-d)) FOR CHRONIC CALCULATIONS

CHEM	INHAL	DERM	SOIL	MOTHER	FISH	WATER	VEG	DAIRY	BEEF	CHICK	PIG	EGG
0001	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0002	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0003	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0004	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0005	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0006	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0007	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0008	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0009	1.00E+00	1.17E-03	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0010	1.00E+00	1.17E-03	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0011	1.00E+00	1.17E-03	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0012	1.00E+00	1.17E-03	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0013	1.00E+00	1.17E-03	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0014	1.00E+00	1.17E-03	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0015	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0016	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0017	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

0018	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0019	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0020	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0021	1.00E+00	1.17E-03	1.75E-04	0.00E+00	0.00E+00	0.00E+00	4.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0022	1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

DERIVED CHRONIC HI

CHEM	CV	CNS	BONE	DEVEL	ENDO	EYE	GILV	IMMUN	KIDN	REPRO	RESP	SKIN	BLOOD	MAX
0001	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-01	0.00E+00	0.00E+00	1.11E-01
0002	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E+01	0.00E+00	0.00E+00	1.67E+01
0003	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-03	0.00E+00	0.00E+00	5.00E-03
0004	0.00E+00	1.67E-02	0.00E+00	1.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-02	1.67E-02
0005	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-02	0.00E+00	0.00E+00	0.00E+00	5.00E-02
0006	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-01	0.00E+00	0.00E+00	2.00E-01
0007	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-01	0.00E+00	0.00E+00	3.33E-01
0008	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
0009	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0010	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0011	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0012	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0013	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0014	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0015	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-01	0.00E+00	0.00E+00	1.11E-01
0016	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	3.33E-04
0017	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-02	0.00E+00	0.00E+00	3.33E-02
0018	0.00E+00	3.33E-03	0.00E+00	3.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	0.00E+00	0.00E+00	3.33E-03
0019	0.00E+00	0.00E+00	0.00E+00	5.00E-04	5.00E-04	0.00E+00	5.00E-04	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04
0020	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0021	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0022	0.00E+00	1.43E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-03	0.00E+00	0.00E+00	1.43E-03
SUM	0.00E+00	2.16E-02	0.00E+00	2.05E-02	5.00E-04	1.70E+01	5.00E-04	0.00E+00	5.00E-04	5.00E-02	1.75E+01	0.00E+00	1.67E-02	1.75E+01