

US EPA ARCHIVE DOCUMENT

## **Appendix F.1**

### **Monte Carlo Fate and Transport Modeling**

## Appendix F.1

# Monte Carlo Fate and Transport Modeling

### Introduction

The probabilistic analysis addresses only constituents and pathways that had an excess lifetime cancer risk of  $10^{-6}$  or greater or a hazard quotient of 1 or greater. Spreadsheet models, computer programs, and Crystal Ball™ version 4.0d were used to run the Monte Carlo analysis. This document describes how the common input parameters, their distributions, and the transfer of input-output data were handled.

Eight waste quantities were used in the probabilistic assessment for wastewaters managed in tanks (Table 2-4) and nine wastewater sludge quantities were used for the landfills (Table 2-6). Only one waste quantity was used for the land treatment unit (LTU) because only one facility uses an LTU. Waste quantity and facility location were independent variables in the risk assessment.

For the deterministic analysis, an average waste concentration and a maximum concentration were used to represent the central tendency and high-end concentrations, respectively. For the Monte Carlo analysis, waste concentrations were determined by selecting one of the available samples at random. Each sample (see Tables 2-1, 2-2, and 2-3) had an equal probability of being selected. Constituents of concern (COCs) for the LTU included dioxins (nongroundwater pathways), arsenic (nongroundwater and groundwater pathways), and chromium (direct inhalation). Arsenic (groundwater ingestion) was the only COC for the landfill. Dioxins were the only COCs for wastewaters.

### Data Inputs and Outputs

In concept, the approach for the Monte Carlo analysis is no different from the deterministic analysis. The partitioning model (described in Appendix D.1) is used to calculate the relationship between constituent concentrations in the waste entering the waste management unit (input) and the concentrations leaving the waste management unit (output). For the deterministic analysis, each input parameter is set at either a central tendency or high-end value with a maximum of two parameters set at the high-end value at any time. For the Monte Carlo analysis, probability density functions (PDFs) are developed that describe the full range of values for the various input parameters. PDFs for input parameters used to model constituents released from

EDC/VCM wastewater sludges managed in a landfill are shown in Figure F.1-1 (unsaturated zone), Figure F.1-2 (saturated zone), and Figure F.1-3 (source specific parameters). Unsaturated zone, saturated zone, and source specific input PDFs used to model the LTU are shown in Figures F.1-4, Figure F.1-5, and F.1-6, respectively. PDFs are not shown for waste concentration (Tables 2-1 to 2-3), waste quantities (Tables 2-4 and 2-6), location (Tables 2-5 and 2-6), or distance to receptor (50, 75, 100, 200, 300, 500, and 1000 m) because values were selected with equal probability from a limited number of available or selected values rather than a continuous distribution. The various input parameters used in the Monte Carlo analysis are described in Appendix K.

For the non-groundwater pathway analyses, fate and transport modeling and exposure modeling were linked together and are discussed in more detail in Appendix F.2. For groundwater pathways, the fate and transport models are separate from the exposure modeling. A PDF for groundwater concentrations is generated from the EPACMPT model. PDFs for groundwater concentrations generated for the landfill and LTU are shown in Figures F.1-7a and F.1-7b, respectively. The groundwater concentration PDF is then combined with exposure parameters (discussed in Appendix F.2) to generate a distribution of risk for each receptor. Therefore, in order to conduct a probabilistic risk analysis for groundwater exposure pathways, it was necessary to link output from the partitioning model with the groundwater model. The following sections describe the general and modified Monte Carlo methodologies used for groundwater fate and transport modeling.

### **Monte Carlo Module of EPACMTP**

The Monte Carlo option in EPACMTP is based on the module incorporated in the EPA's Composite Model for Landfills (EPACML) (U.S. EPA, 1990). However, this module has been enhanced in three ways: (1) to account more directly for dependencies between various model parameters by using data from actual waste sites across the United States; (2) to use a site-based methodology to directly associate the appropriate regional climatic and hydrogeologic conditions to the location of a waste site, and (3) to account for statistical correlations between two or more model parameters, e.g., landfill volume and area, when missing parameter values are generated.

In order to run EPACMTP in Monte Carlo mode, a probability distribution must be provided for each input parameter (except constant or derived parameters). The Monte Carlo methodology is then performed as follows. The model input data are read first, followed by generation of a sequence of random numbers. This sequence of random numbers is then used to generate the pseudo-random values of the uncertain input variable(s) (drawn from the known distribution and within the range of any imposed bounds). The derived parameter values are then calculated. Following this, the contaminant fate and transport simulation is performed. The result is given in terms of the predicted contaminant concentrations in a downgradient receptor well. The generation of random parameter values and the fate and transport simulation is then repeated as many times as desired to generate a set of resulting receptor well concentrations. This model output is then statistically analyzed to yield the cumulative probability distribution of groundwater concentrations.

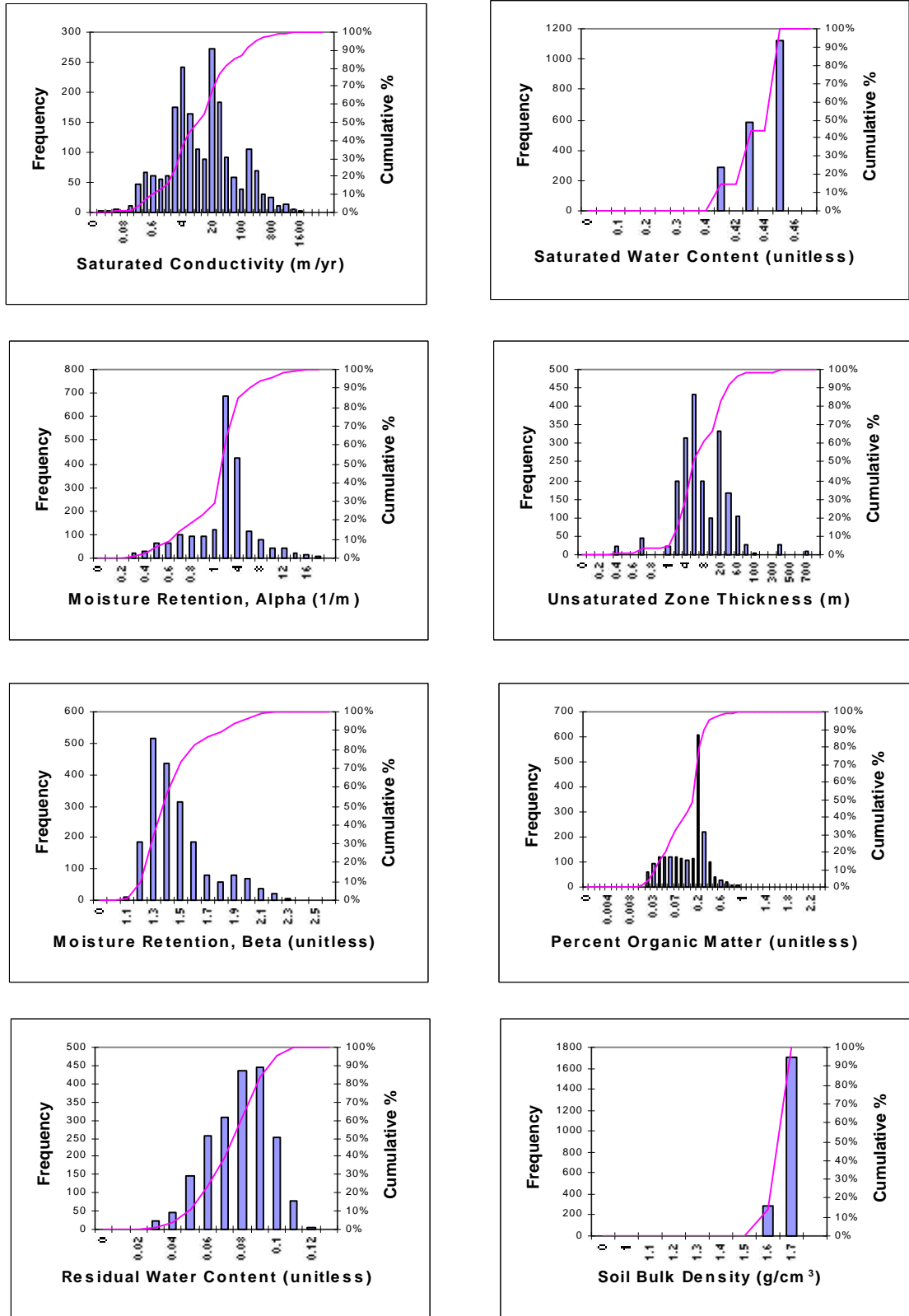


Figure F.1-1. Monte Carlo Input Parameters, Landfill - Unsaturated Zone

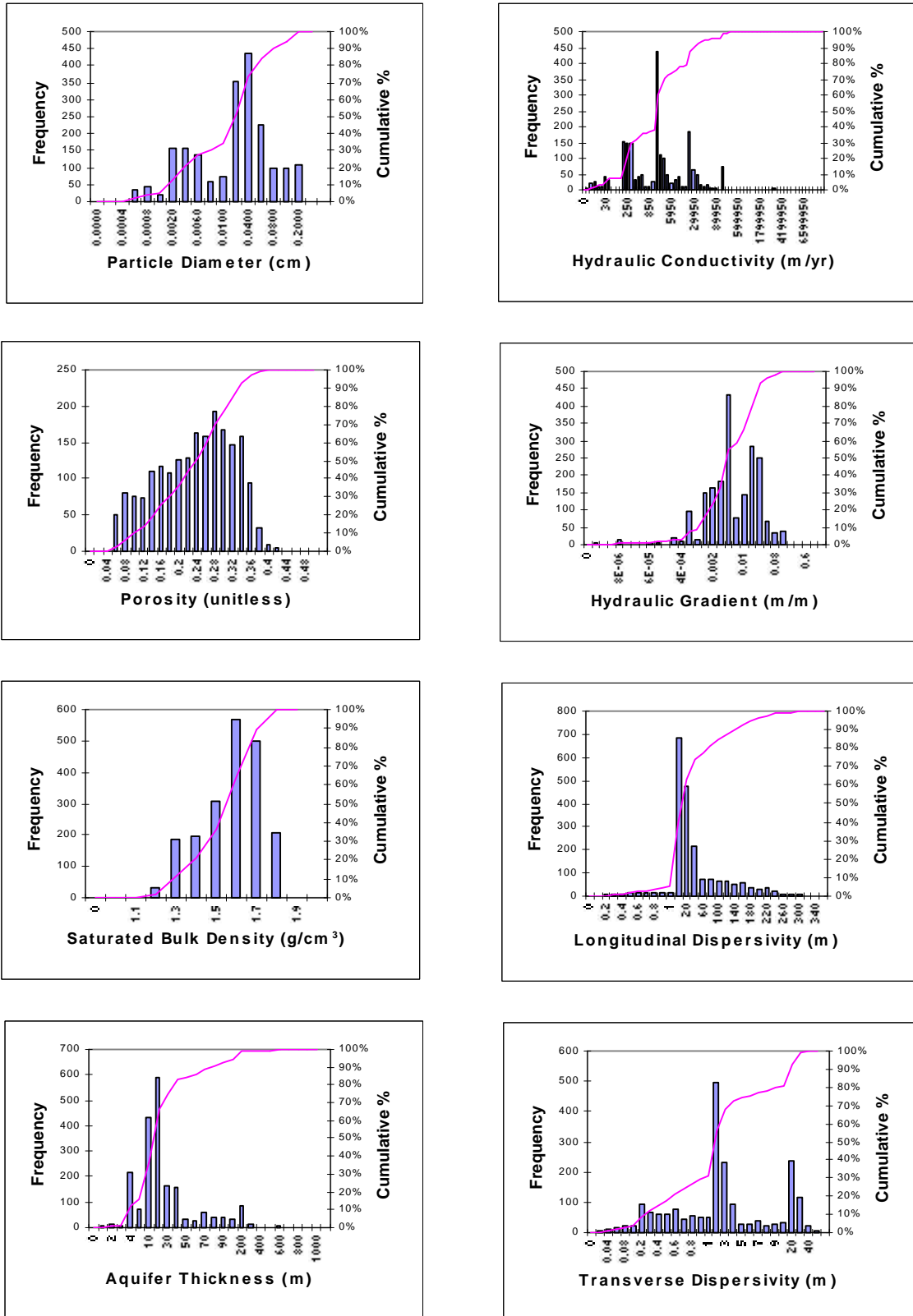


Figure F.1-2. Monte Carlo Input Parameters, Landfill -Saturated Zone

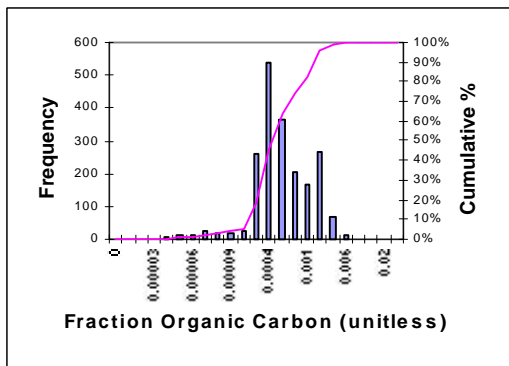
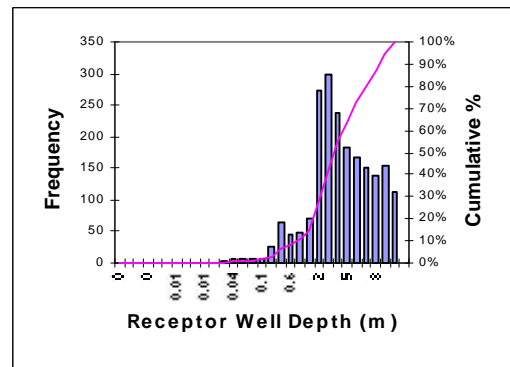
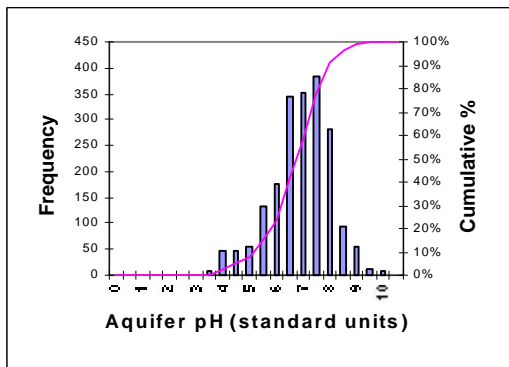
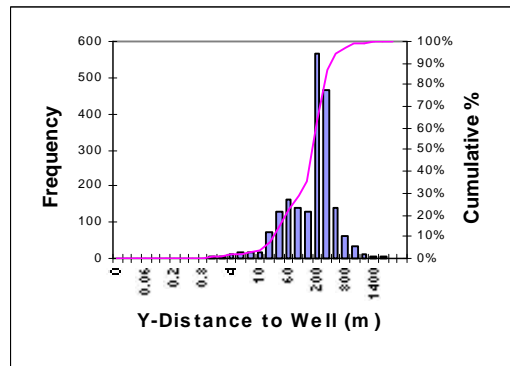
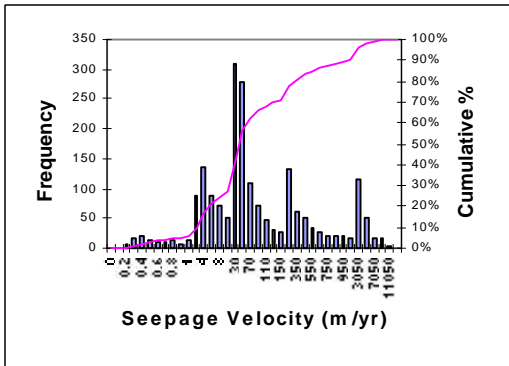
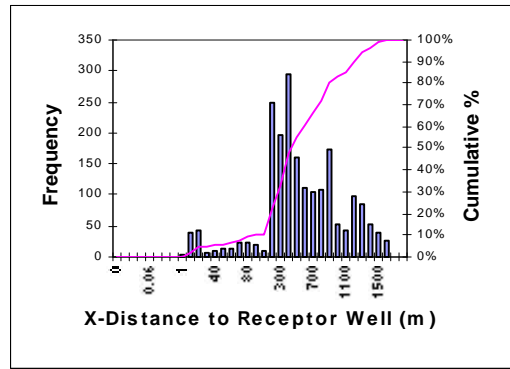
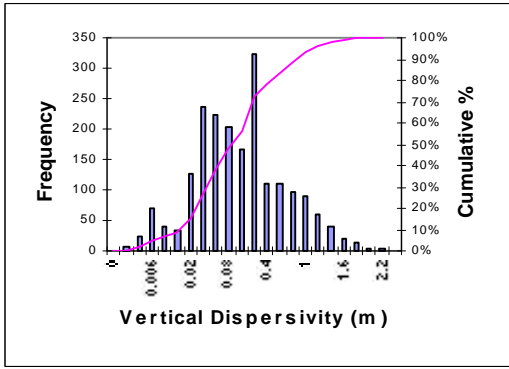


Figure F.1-2. Continued

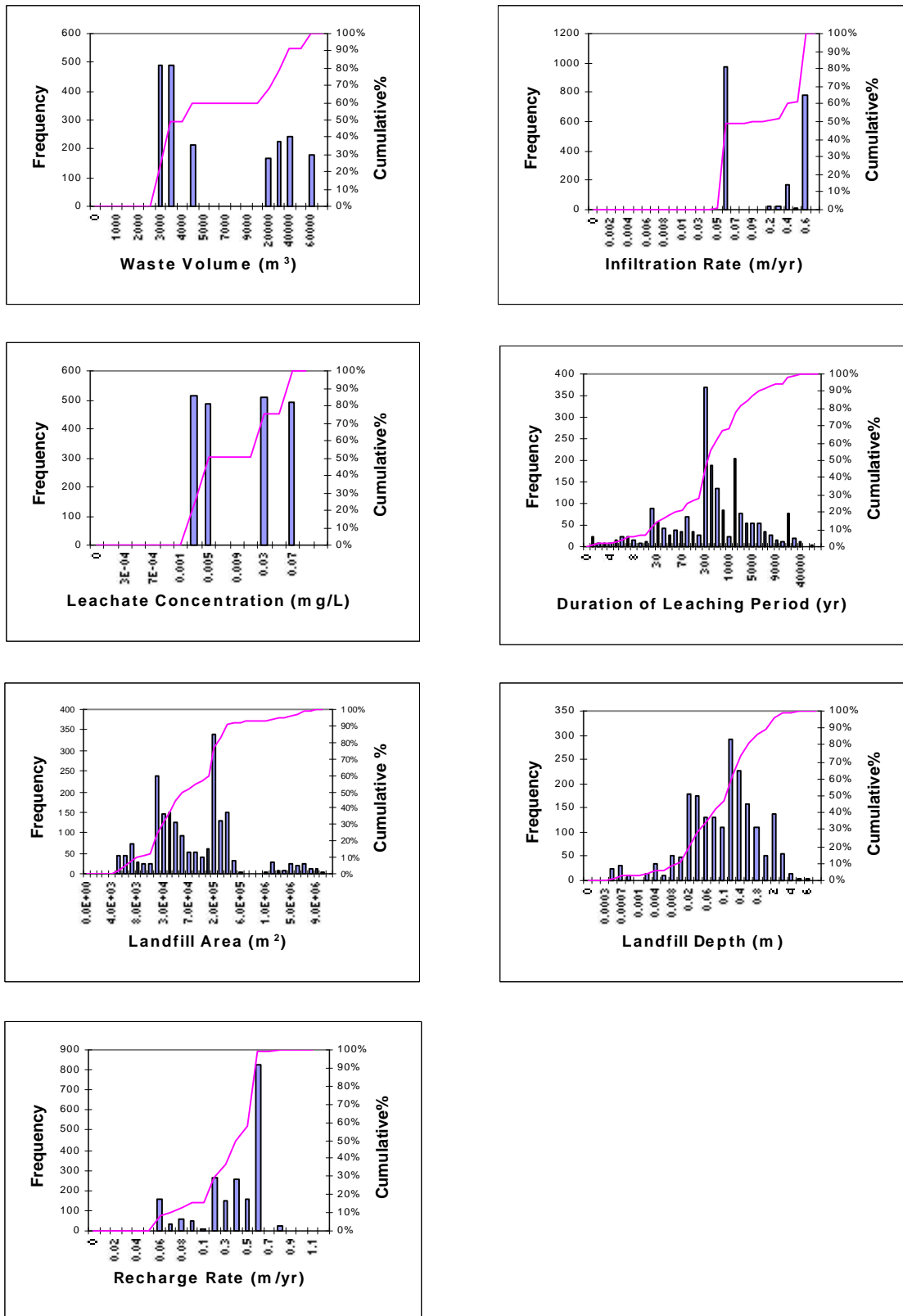


Figure F.1-3. Monte Carlo Source Specific Input Parameters - Landfill



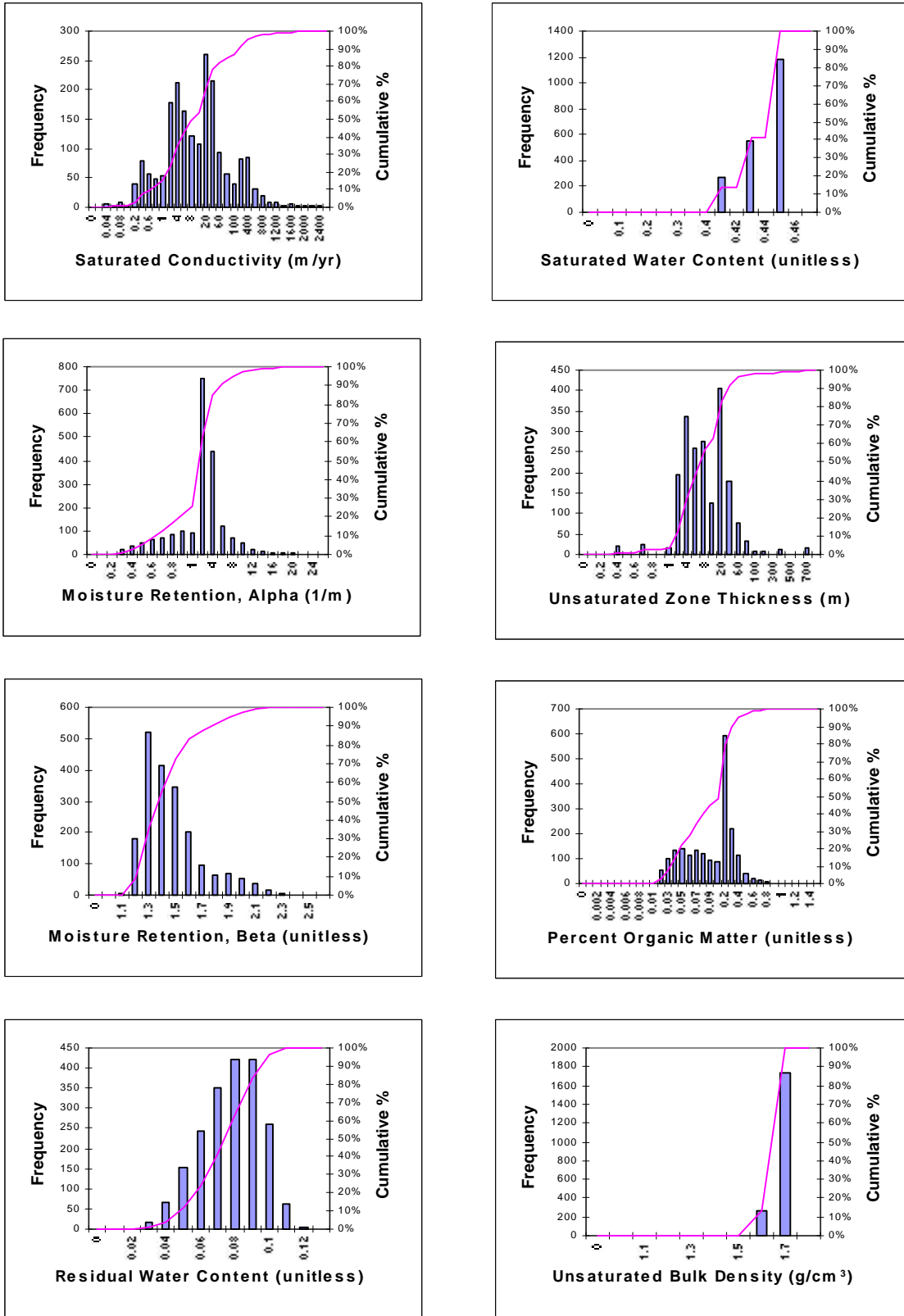


Figure F.1-4. Monte Carlo Input Parameters, Land Treatment Unit - Unsaturated Zone

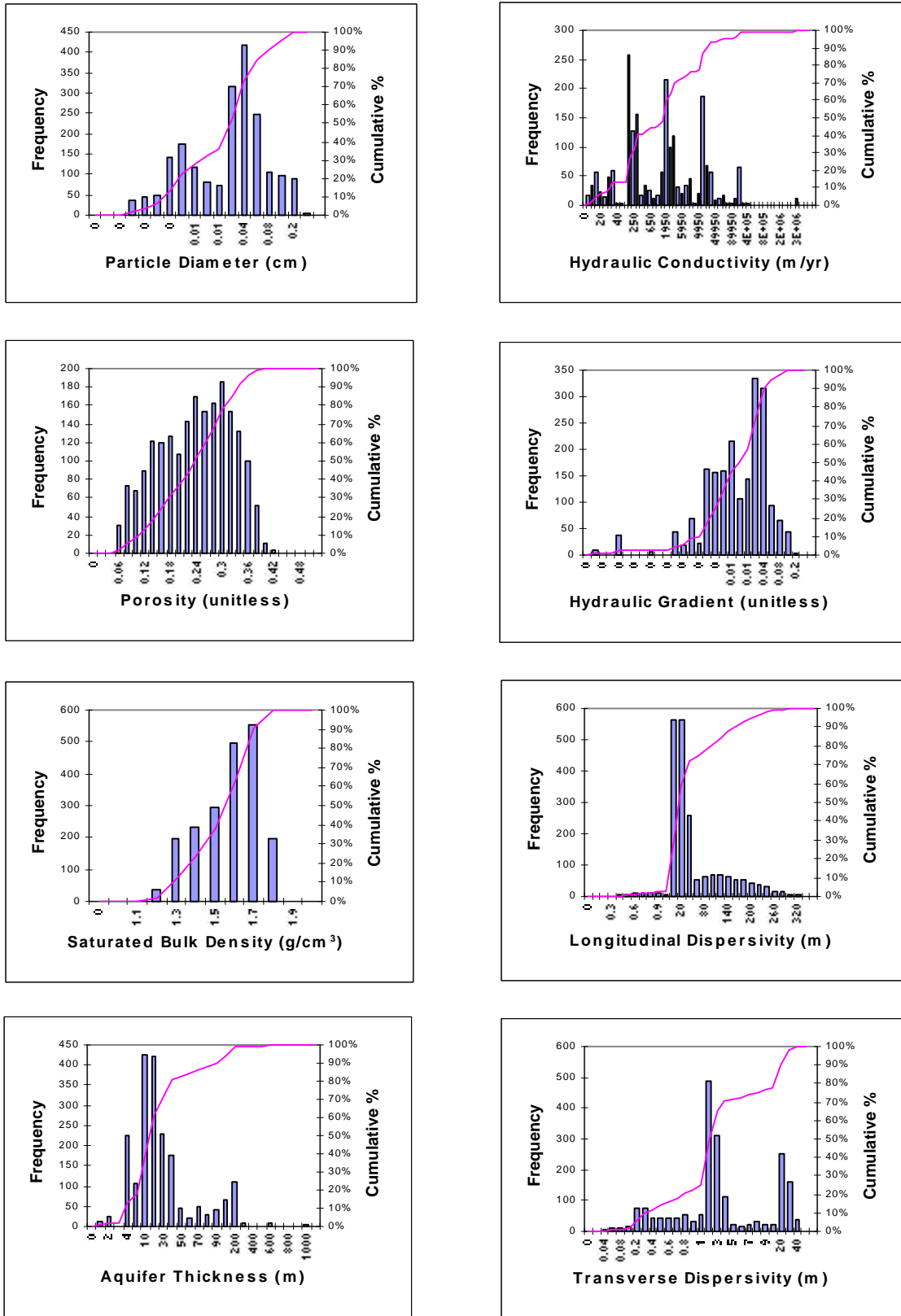


Figure F.1-5. Monte Carlo Input Parameters, Land Treatment Unit - Saturated Zone

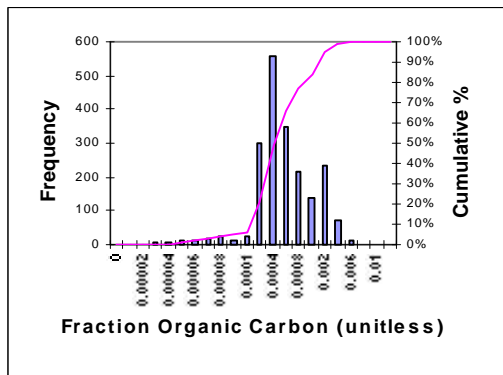
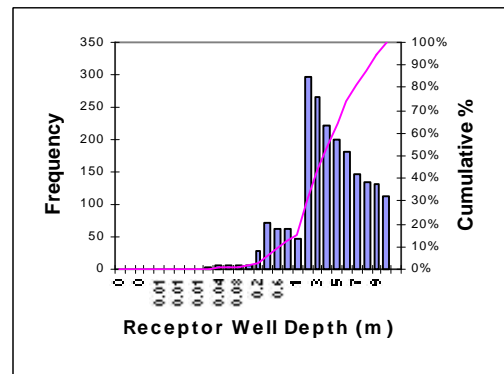
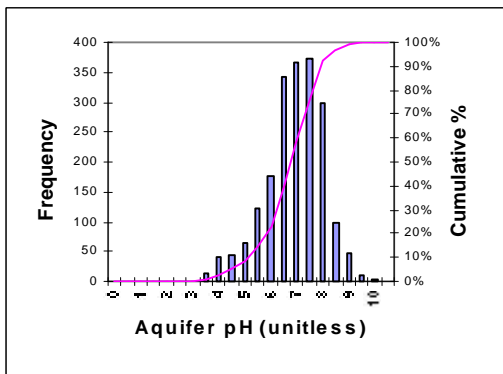
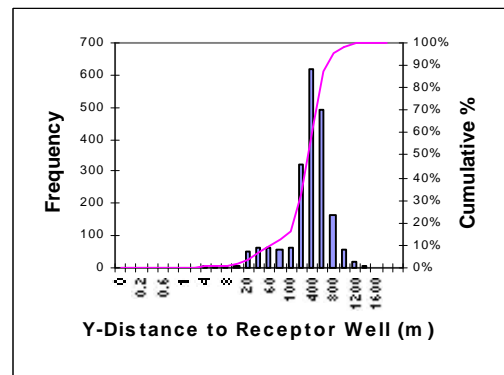
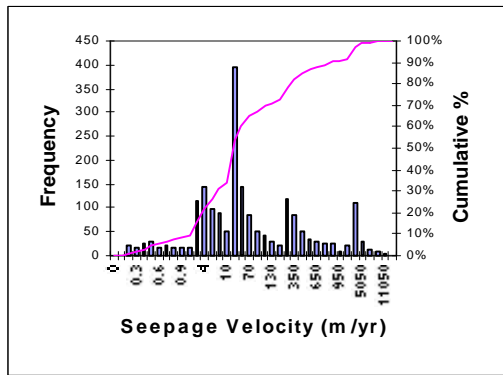
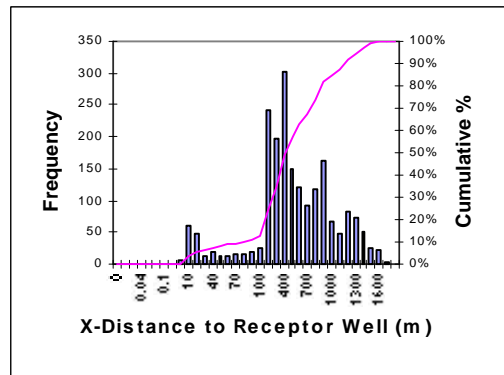
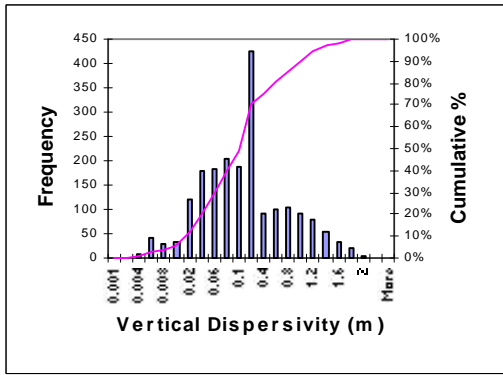
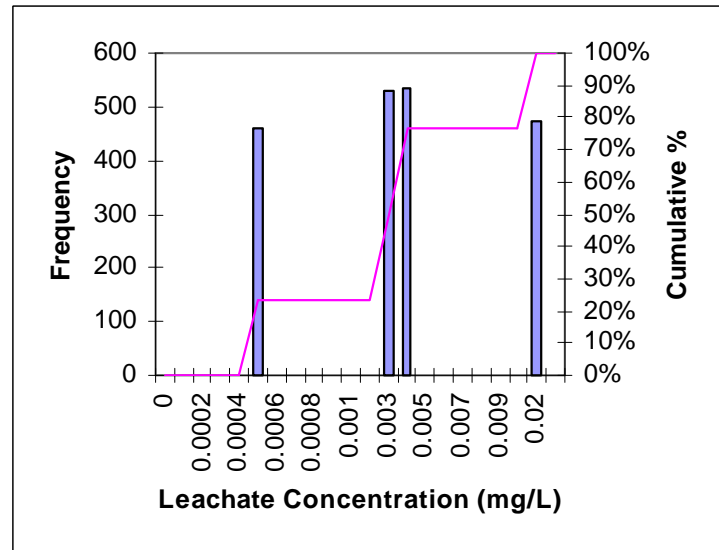


Figure F.1-5. Continued



**Figure F.1-6. Monte Carlo Source Specific Parameters - Land Treatment Unit**

### Regional Site-Based Methodology

A regional site-based approach attempts to approximate the ideal situation where a sample of sites has a complete description of the characteristics needed to estimate the distribution of potential receptor well concentrations. It relies on a statistically based sample of waste management units to establish the site source parameters and uses location to place the site within one of 13 hydrogeologic regions and within one of 97 climatic regions. The hydrogeologic and climatic region numbers are then used to define the site's hydrogeologic and climatic parameters, respectively.

A number of different sources were reviewed for the development of the site-based approach. Four of these data sets were selected to derive the regional characteristics of the most sensitive input parameters for each sampled site: the OPPI survey of waste management units (U.S. EPA, 1986), the infiltration and recharge analysis performed for 97 U.S. climatic centers, the U.S. Geological Survey (USGS) inventory of the groundwater resources of each state (Heath, 1984), and the Hydrogeologic Database for Modeling (HGDB) (API, 1989; U.S. EPA, 1997a and 1997b), developed from a survey of hydrogeologic parameters for actual hazardous waste sites in the United States.

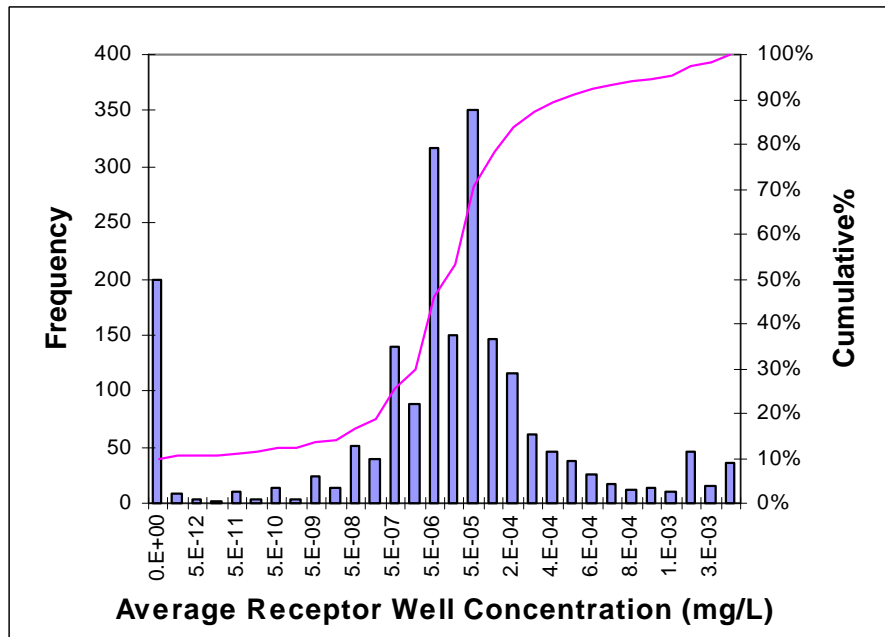


Figure F.1-7a. Chlorinated Aliphatics, Landfill Scenario , Monte Carlo Output Distribution for Average Receptor Well Concentrations for Arsenic

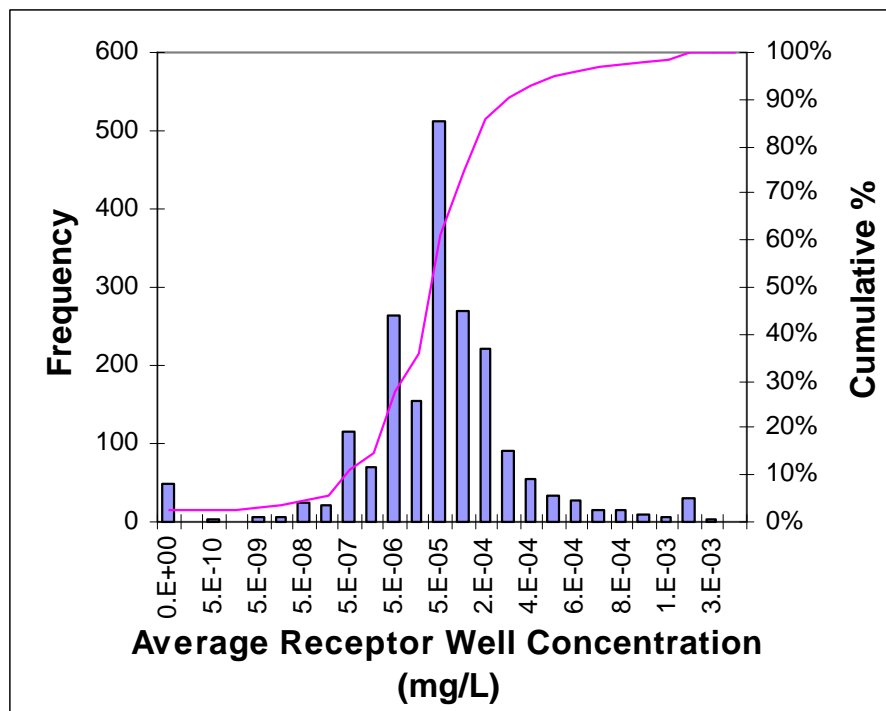


Figure F.1-7b. Chlorinated Aliphatics, Land Treatment Unit , Monte Carlo Output Distribution for Average Receptor Well Concentrations for Arsenic

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## Waste Management Units

The OPPI survey, conducted in 1986 by Westat, Inc., provides the basis for extrapolating the sample inferences to the nationwide population. The survey provides a statistical sample design based on a set of observations of site specific areas, volumes and locations for industrial Subtitle D facilities in the United States. Data are included for Industrial Subtitle D landfills, surface impoundments, wastepiles and land application units. The numerical values of waste management unit (WMU) area and volume used in the EPACMTP modeling analyses are tabulated in the *EPACMTP User's Guide* (EPA, 1997a).

## Infiltration and Recharge Rates

Given the location of a particular waste site and its soil type, the climatic data set allows the infiltration and recharge rates to be assigned based on values from the nearest climatic center. The EPACMTP model requires input of the net rate of downward water flow through the unsaturated zone to the water table. The model also allows this flow rate through the waste source to be different from the ambient regional rate. The former is referred to as the infiltration rate, the latter is referred to as the recharge rate. The infiltration rate can differ from the recharge rate for a variety of reasons, including engineering design of the waste site, topography, land use, and vegetation.

The climatic data set provides infiltration and recharge values for three soil types at each climatic center. The soil types were based on the Soil Conservation Service (SCS) soil mapping database and the U.S. Department of Agriculture's definitions of coarse, medium, and fine soil textures. These three categories of soil texture are represented in EPACMTP by sandy loam, silt loam, and silty clay loam, respectively. Using National Oceanic and Atmospheric Administration data on precipitation and evaporation rates, 97 cities from the contiguous 48 states were selected as climatic centers. WMU-specific infiltration and recharge rates were then generated for each soil type at each climate center using the HELP model. For the land application unit scenario, the additional water from the application of sludge-type wastes does not significantly impact the soil water balance and has little effect on the calculated net infiltration since this additional moisture leads to a corresponding increase in runoff and evapotranspiration. Therefore, the infiltration rate at land application sites was taken to be equal to the ambient regional recharge rate for the climatic region in which each site is located.

## Hydrogeologic Parameters

The USGS inventory of state groundwater resource maps (Heath, 1984) were used to identify the aquifer type corresponding to each waste site in the OPPI database. The aquifer type for the site can then be used with the HGDB to specify the probability distribution for each of the groundwater parameters. The HGDB provides data on depth to groundwater, aquifer thickness, hydraulic gradient, hydraulic conductivity, and the hydrogeologic classification for approximately 400 hazardous waste sites nationwide. These site-specific data were then re-grouped according to hydrogeologic classification, and a distribution of values was created for each hydrogeologic parameter for each of the 12 hydrogeologic regions. The aquifer types and the parameter values for each are provided in the *EPACMTP User's Guide* (EPA, 1997a).

The data sources listed above were used to construct a site data file for each type of waste management unit. Each of these data files has the following structure:

- # Listing of WMU sites: Each waste site from the OPPI survey corresponds to one record that contains the following data: WMU area, WMU depth, groundwater temperature, hydrogeologic region, climate region, and site weight. The probability that a particular site will be selected is proportional to this weighting factor, which was assigned to reflect the capacity of all units at that facility location.
- # Listing of infiltration rates: Each climatic region has an infiltration rate for each of the following soil types: silty loam, sandy loam, and silty clay loam.
- # Listing of recharge rates: Each climatic region has a regional recharge rate for each of the following soil types: silty loam, sandy loam, and silty clay loam.
- # Listing of hydrogeologic parameter values: Each hydrogeologic region has a distribution of values for each of the following parameters: depth to groundwater, saturated thickness, hydraulic conductivity, and hydraulic gradient.

### General Monte Carlo Methodology

Fundamentally, the regional site-based Monte Carlo approach consists of determining the probability distribution of groundwater concentrations based on the database of OPPI waste sites, on the assumption that these sites are an adequate representation of the universe of possible waste sites in the United States. Since the OPPI data set includes only the area, volume, location and relative weight of the facility, other data sources are used to determine the additional input parameters required to perform the groundwater fate and transport modeling.

During each realization, a site is selected at random from the OPPI data set. The sites are sampled with replacement, i.e., the same site may be selected more than once. Note that if a site is sampled more than once, the specific combination of values for infiltration rate, hydrogeologic parameters, and receptor well location will most likely differ. As a result, the receptor well concentration will be different also.

The procedure for a Monte Carlo simulation is summarized below.

1. Select a Waste Site: A site is selected at random from the OPPI data set. The OPPI data set contains the facility location, area, and volume for sites selected from the universe of operational waste management facilities in the United States.
2. Generate Recharge and Infiltration for Selected Waste Site: The corresponding climatic region for the chosen site and a randomly chosen soil type are then used to specify the recharge and infiltration rates for the site. The type of soil used for the landfill cover (for infiltration rate) and the regional soil type (for recharge rate) are generated from a national joint probability distribution.



3. **Generate Hydrogeologic Variables for Selected Waste Site:** The corresponding hydrogeologic region for the chosen site is then used to specify the distributions of values for each hydrogeologic parameter. The hydrogeologic parameter values are then chosen at random from the appropriate distribution for that hydrogeologic region. If the selected groundwater parameter combination has missing values, a joint probability distribution is derived for each groundwater region to generate the missing value as a function of the known values.
4. **Generate Remaining Parameters for Selected Waste Site:** The remaining parameters for the waste site (e.g., the receptor well location) are generated by using nationwide distributions.
5. **Calculate the Receptor Well Concentration for Selected Waste Site:** Given the waste site data and the receptor well location generated in the previous four steps, and the chemical-specific characteristics (leachate concentration, sorption coefficient, degradation rate), the groundwater fate and transport model is then run to compute the receptor well concentration for this realization.
6. **Repeat Steps 1 through 5 for the desired number of realizations to produce the distribution of receptor well concentrations.**

### **Linkage Between LTU Partitioning Model and EPACMTP**

The Monte Carlo methodology used for the current analysis for the land application unit scenario is somewhat different from the general methodology described above. In this case, RTI's partitioning model was used to generate the leachate concentration that infiltrates into the subsurface; this leachate concentration is then used as input to the groundwater fate and transport. Additionally, since there is only one Chlorinated Aliphatics facility that land applies their EDC/VCM sludge, only one waste unit location and waste volume were used for this analysis rather than using the OPPI database of waste sites.

For the land treatment unit scenario, the source model was used to calculate the relationship between constituent concentrations in the waste entering the waste management unit and the leachate concentrations infiltrating to the subsurface. This source model was then run in Monte Carlo mode to generate a distribution of leachate concentrations, creating a land treatment unit source data file of 1,000 records. Each record contained the following data: land treatment unit area, infiltration rate, groundwater temperature, climate region number, hydrogeologic region number (all model inputs), and leachate concentration (model output). This source data file was then used as input to the EPACMTP subsurface fate and transport model, which then calculates the corresponding exposure concentrations at a specified groundwater receptor well (U.S. EPA, 1997a and 1997b).

In the deterministic analysis, the creation of model input files and assignment of parameter values is done manually. In a Monte Carlo analysis, which involves a thousand or more model realizations, parameter values are drawn randomly from appropriate probability distributions; a process that is fully automated in the source partitioning model and in



EPACMTP. However, to maintain conservation of contaminant mass in a Monte Carlo analysis, it is not sufficient for common parameters to be drawn from the same probability distribution in both the source partitioning model and the groundwater model. Rather, the models must be fully synchronized so that the same values for common input parameters are used in each individual Monte Carlo realization.

To implement the required Monte Carlo linkage between the land treatment unit partitioning model and EPACMTP, the data output routines of RTI's partitioning model were modified to generate output files that provide not only the leachate concentrations for each realization, but also the corresponding input values of common modeling parameters. For the Chlorinated Aliphatics analysis, these parameters are

- # Waste Management Unit Area
- # Infiltration Rate
- # Site Location (in terms of hydrogeologic and climatic region)
- # Maximum 9-year Average Leachate Concentration.

For the first realization of the partitioning model, one value was chosen for each model input and the source partitioning equations were then used to generate the leachate concentration profile. The maximum 9-year average leachate concentration was then calculated for this realization and this leachate concentration and the input values for all common modeling parameters were saved as one record of an ASCII data file. This process was then repeated 1,000 times, producing an output data file containing 1,000 records.

This data file was then used as input to the EPACMTP groundwater fate and transport model. For this purpose, the EPACMTP data input routines were modified to read in the values of Monte Carlo parameters that are common to both models from this data file rather than generate these parameter values internally.

### **Linkage Between Landfill Volatilization Model and EPACMTP**

For the current analysis, the general Monte Carlo methodology described above was also modified somewhat for the landfill scenario. Instead of using the OPPI database of waste sites, a database of Chlorinated Aliphatics facility locations was created. Each facility location was assigned a hydrogeologic region number, a climate region number, a groundwater temperature, and an infiltration rate. RTI first ran their landfill volatilization model in Monte Carlo mode (for those constituents that volatilize) to generate a distribution of the mass volatilized during the active life of the landfill. The output of this model was a source data file of 1,000 records; each record contained the following data: landfill area, landfill depth, infiltration rate, waste concentration, leachate (TCLP) concentration, groundwater temperature, climate region number, and hydrogeologic region number. This landfill source data file was then used as input to EPACMTP.

As described above, it is necessary to fully synchronize the source model and the groundwater fate and transport model so that the same values for common parameters are used in each individual Monte Carlo realization. For the landfill scenario, it was assumed that

volatilization was significant only during the first 30 years of landfill operation, before the final cap was installed. Thus, the landfill volatilization model was used to calculate the final waste concentration after landfill closure. The leachate concentrations were chosen from TCLP sampling data. These waste and leachate concentrations, in turn, provide input to the EPACMTP subsurface fate and transport model, which then calculates the corresponding exposure concentrations at a specified groundwater receptor well (U.S. EPA, 1997a and 1997b).

To implement the required Monte Carlo linkage between the landfill volatilization model and EPACMTP, the data output routines of the volatilization model were modified in a manner similar to the land treatment unit partitioning model. That is, the output files provide not only the leachate concentrations for each realization, but also the corresponding input values of common modeling parameters.

For the first realization of the volatilization model, one value was chosen for each model input and the source partitioning equations were then used to generate the amount of mass volatilized. This mass volatilized and the input values for all common modeling parameters were saved as one record of an ASCII data file. This process was then repeated 1,000 times, producing an output data file containing 1,000 records. The final waste concentration was then calculated as a postprocessing step and added to the data file. This data file was then used as input to the EPACMTP groundwater fate and transport model. For this purpose, the EPACMTP data input routines were modified to read in the values of Monte Carlo parameters that are common to both models from this data file rather than generate these parameter values internally.

### **Summary of EPACMTP Monte Carlo Procedure**

For each realization of the subsequent groundwater pathway Monte Carlo analysis, EPACMTP picked a random record from the appropriate source file; the model then read in the values of the common input parameters in that record. The hydrogeologic region and climate region indices that are specific to each waste unit site were then employed to choose random values for other saturated and unsaturated zone parameters appropriate to the waste unit location associated with the chosen record. For each of the 2,000 EPACMTP Monte Carlo realizations, the receptor well concentration of interest, e.g., maximum 9-year average concentration, was then calculated and saved to an output file. At the conclusion of the modeling, a PDF for the maximum 9-year average receptor well concentration was constructed.

**References**

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## **Appendix F.2**

### **Monte Carlo Exposure Modeling**

## Appendix F.2

# Monte Carlo Exposure Modeling

### Introduction

Exposure modeling for the probabilistic risk assessment included all the receptors evaluated in the deterministic risk assessment but was restricted to those constituents and pathways that exceeded specified risk criteria: an excess lifetime cancer risk equal to or greater than  $10^{-6}$  or a hazard quotient equal to or greater than 1. For wastewaters dioxins were the only constituents evaluated. Constituents with risk equal to or greater than  $10^{-6}$  for the land treatment unit (LTU) included dioxins (non-groundwater pathways and fish ingestion), arsenic (groundwater and non-groundwater pathways), and chromium (direct inhalation pathway). Arsenic (groundwater pathway) was the only constituent with a risk estimate higher than  $10^{-6}$  for the landfill scenarios.

### Probability Density Functions

Appendix F.1 discussed the probabilistic approach for fate and transport modeling. Distributions of media concentrations (exposure point concentrations) were created and were included in the Monte Carlo exposure modeling along with probability density functions (PDFs) for intake, body weight, and exposure duration parameters. PDFs for each of the exposure parameters were derived from the *Exposure Factors Handbook* (U.S. EPA 1997a,b) as described below and are shown in Figures F.2-2 and F.2-3.

#### Body Weight

GROUP	N	DATA MEAN	DATA SDEV	P05	P50	P75	P90	P95	distribution	pop estd MEAN	pop estd SDEV
age 1-5	3762	15.52	3.719	12.5	15.26	16.67	18.32	19.45	lognormal	15.5	2.05
age 6-11	1725	30.84	9.561	22.79	29.58	33.44	39.66	43.5	lognormal	30.7	5.96
age 12-19	2615	58.45	13.64	43.84	56.77	63.57	71.98	79.52	lognormal	58.2	10.2
age 20+	12504	71.41	15.45	52.86	69.26	78.49	89.75	97.64	lognormal	71.2	13.3

\*in kg

Body weight data were obtained from Tables 7-2, 7-3, 7-4, 7-5, 7-6, and 7-7 of the *Exposure Factors Handbook* (U.S. EPA, 1997a). Data (in kg) were presented by age and gender. Weighted averages of percentiles, mean, and standard deviations were calculated for child 1 (1-

to 5-year-olds), child 2 (6- to 11-year-olds), child 3 (12- to 19-year-olds), and adult age groups; male and female data were weighted and combined for each age group. Percentile data were used as the basis of fitting distributions. These data were analyzed to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood estimation. Measures of goodness-of-fit were used to select the most appropriate model.

### Drinking Water

GROUP	N	DATA MEAN	DATA SDEV	P01	P05	P50	P90	P95	P99	distribution	pop estd MEAN	pop estd SDEV
age 1-5	3200	697.1	401.5	51.62	187.6	616.5	1236	1473	1917	gamma	698	406
age 6-11	2405	787	417	68	241	731	1338	1556	1998	gamma	787	430
age 12-19	5801	963.2	560.6	65.15	241.4	868.5	1694	2033	2693	gamma	965	574
age 20+	13394	1384	721.6	207.6	457.5	1275	2260	2682	3737	gamma	1383	703

\*in mL/day

Drinking water intake data were obtained from Table 3-6 of the *Exposure Factors Handbook* (U.S. EPA, 1997a). Data (in mL/d) were presented by age groups. Weighted averages of percentiles, means, and standard deviations were calculated for child 1, child 2, child 3, and adult age groups. Percentile data were used to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood estimation. Measures of goodness-of-fit were used to select the most appropriate model.

### Exposed Fruit

GROUP	N	DATA MEAN	DATA SDEV	P01	P05	P50	P90	P95	P99	distribution	pop estd MEAN	pop estd SDEV
age 1-5	49	2.6	3.947			1.82	5.41	6.07		gamma	2.25	1.89
age 6-11	68	2.52	3.496		0.171	1.11	6.98	11.7		lognormal	2.78	5.12
age 12-19	50	1.33	1.457		0.123	0.609	3.41	4.78		lognormal	1.54	2.44
age 20+	386	1.192	1.719	0.07	0.152	0.682	2.39	3.369	12.96	lognormal	1.14	1.41
all ages	679	1.49	2.118	0.044	0.137	0.833	3.16	4.78	12	lognormal	1.51	2.19
farmer	112	2.32	2.646	0.072	0.276	1.3	5	6.12	15.7	lognormal	2.36	3.33
home gard	596	1.55	2.226	0.042	0.158	0.878	3.41	5	12.9	lognormal	1.57	2.3

\*in g WW/kg/day

Data for consumption of home-grown exposed fruit were obtained from Table 13-61 of the *Exposure Factors Handbook* (U.S. EPA, 1997b). Data (in g WW/kg/d) were presented by age groups and for farmers and home gardeners (adults). For the child 1 age group, data were available only for 3- to 5-year-olds (not available for 1- to 2-year-olds); therefore, these data were used for the entire 1- to 5-year-old age group. Percentile data were used to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood estimation. Measures of goodness-of-fit were used to select the most appropriate model. The fraction of exposed fruit intake that is home produced is 0.116 for households that garden and 0.328 for households that farm (Table 13-71, U.S. EPA 1997b).

*Protected Fruit*

GROUP	N	DATA MEAN	DATA SDEV	P01	P05	P50	P90	P95	P99	distribution	pop estd MEAN	pop estd SDEV
age 1-5		ND	ND							lognormal	6.5	15.9
age 6-11		ND	ND							lognormal	6.5	15.9
age 12-19	20	2.96	4.441		0.16	1.23	7.44	11.4		lognormal	2.91	6.39
age 20+	106	5.338	7.174		0.276	2.127	15.25	19.8		lognormal	6.67	17.7
all ages	173	5.74	8.221	0.15	0.266	2.34	16	19.7	47.3	lognormal	6.5	15.9
farmer		ND	ND							lognormal	6.67	17.7
home gard	146	5.9	8.422	0.117	0.265	2.42	16	19.1	47.3	lognormal	6.63	15.7

\*in g WW/kg/day

Data for consumption of home-grown protected fruit were obtained from Table 13-62 of the *Exposure Factors Handbook* (U.S. EPA, 1997b). Data (in g WW/kg/d) were presented for 12- to 19-, 20- to 39- and 40- to 69-year-olds, all ages, and home gardeners. Available percentile data were used to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood estimation. Measures of goodness-of-fit were used to select the most appropriate model.

Data were not available for 1- to 2-, 3- to 5-, and 6- to 11-year-olds or farmers. For the child 1 and child 2 age groups, the lognormal model would be most appropriate because lognormal fits the best in other age groups for protected fruit and for protected vegetables; population-estimated means and standard deviations for "all ages" were used for the analysis (normalized to body weight). For farmers, the population-estimated means and standard deviations for 20+ year olds (derived from the weighted average of 20- to 39- and 40- to 69-year-old means and standard deviations) were used for the analysis; lognormal also fits the percentile data for the 20+-year-old-group best. The fraction of protected fruit intake that is home produced is 0.094 for households that garden and 0.03 for households that farm (Table 13-71, U.S. EPA, 1997b).

*Exposed Vegetables*

GROUP	N	DATA MEAN	DATA SDEV	P01	P05	P50	P90	P95	P99	distribution	pop estd MEAN	pop estd SDEV
age 1-5	105	2.453	2.675		0.102	1.459	6.431	8.587		gamma	2.55	2.58
age 6-11	134	1.39	2.037		0.044	0.643	3.22	5.47	13.3	lognormal	1.64	3.95
age 12-19	143	1.07	1.128		0.029	0.656	2.35	3.78	5.67	gamma	1.08	1.13
age 20+	927	1.394	1.855	0.005	0.113	0.822	3.117	4.507	8.457	lognormal	1.58	2.83
farmer	207	2.17	2.316		0.184	1.38	6.01	6.83	10.3	lognormal	2.38	3.5
home gard	1361	1.57	2.029	0.003	0.089	0.889	3.63	5.45	10.3	Weibull	1.57	1.76

\*in g WW/kg/day

Data for consumption of home-grown exposed vegetables were obtained from Table 13-63 of the *Exposure Factors Handbook* (U.S. EPA, 1997b). Data (in g WW/kg/d) were presented for 1- to 2-, 3- to 5-, 6- to 11-, 12- to 19-, 20- to 39-, and 40- to 69-year-olds and farmers and home gardeners. Weighted averages of percentiles, mean, and standard deviations were calculated for the child 1 age group (combined 1- to 2- and 3- to 5-year-olds). Percentile data were used to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood



estimation. Measures of goodness-of-fit were used to select the most appropriate model. The fraction of exposed vegetable intake that is home produced is 0.233 and 0.42 for households that garden and households that farm, respectively (Table 13-71, U.S. EPA 1997b).

### Root Vegetables

GROUP	N	DATA MEAN	DATA SDEV	P01	P05	P50	P90	P95	P99	distribution	pop estd MEAN	pop estd SDEV
age 1-5	45	1.886	2.371		0.081	0.686	5.722	7.502		lognormal	2.31	6.05
age 6-11	67	1.32	1.752		0.014	0.523	3.83	5.59		Weibull	1.38	2.07
age 12-19	76	0.937	1.037		0.008	0.565	2.26	3.32		Weibull	0.99	1.19
age 20+	440	1.035	1.426	0.007	0.041	0.634	2.505	3.381	7.701	Weibull	1.04	1.19
farmer	136	1.39	1.469	0.111	0.158	0.883	3.11	4.58	7.47	lognormal	1.45	2.06
home gard	682	1.15	1.494	0.005	0.036	0.674	2.81	3.64	7.47	Weibull	1.15	1.32

\*in g WW/kg/day

Home-grown root vegetable consumption data were obtained from Table 13-65 of the *Exposure Factors Handbook* (U.S. EPA, 1997b). Data (in g WW/kg/d) were presented for 1- to 2-, 3- to 5-, 6- to 11-, 12- to 19-, 20- to 39-, and 40- to 69-year-olds and farmers and home gardeners. Weighted averages of percentiles, mean, and standard deviations were calculated for the child 1 age group. Percentile data were used to fit parametric models. The fraction of root vegetable intake that is home produced is 0.106 and 0.173 for households that garden and households that farm, respectively (Table 13-71, U.S. EPA 1997b).

### Protected Vegetables

GROUP	N	DATA MEAN	DATA SDEV	P01	P05	P50	P90	P95	P99	distribution	pop estd MEAN	pop estd SDEV
age 1-5	53	1.76	1.79		0.265	1.397	3.053	6.812		lognormal	1.88	1.98
age 6-11	63	1.1	1.064		0.208	0.791	2.14	3.12		lognormal	1.07	1.04
age 12-19	51	0.776	0.622		0.161	0.583	1.85	2.2		lognormal	0.77	0.69
age 20+	390	0.859	0.979	0.087	0.142	0.563	1.811	2.817	5.49	lognormal	0.86	1
farmer	142	1.3	1.728	0.087	0.166	0.599	3.55	5.4	9.23	lognormal	1.27	1.85
home gard	602	1.01	1.161	0.103	0.153	0.642	2.32	3.05	6.49	lognormal	1.01	1.19

\*in g WW/kg/day

Home-grown protected vegetable consumption data were obtained from Table 13-64 of the *Exposure Factors Handbook* (U.S. EPA, 1997b). Data (in g WW/kg/d) were presented for 1- to 2-, 3- to 5-, 6- to 11-, 12- to 19-, 20- to 39-, and 40- to 69-year-olds and farmers and home gardeners. Weighted averages of percentiles, mean, and standard deviations were calculated for the child 1 age group (combined 1- to 2- and 3- to 5-year-olds). Percentile data were used to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood estimation. Measures of goodness-of-fit were used to select the most appropriate model. The fraction of protected vegetable intake that is home produced is 0.178 and 0.394 for households that garden and households that farm, respectively (Table 13-71, U.S. EPA, 1997b).



*Dairy Products (Milk)*

GROUP	N	DATA MEAN	DATA SDEV	P05	P10	P25	P50	P75	P90	P95	distribution	pop estd MEAN	pop estd SDEV
age 1-5	2	23.71	35.86	2.98	7.47	13.56	21.5	32.22	42.63	49.62	Weibull	23.6	14.3
age 6-11	1	13.33	20	1.81	3.54	6.72	11.88	18.58	25.38	28.76	Weibull	13.3	8.7
age 12-19	1	6.293	9.44	0.27	0.61	2.31	5.29	9.2	12.75	15.12	Weibull	6.23	5.49
age 20+	2	3.358	5.059	0.11	0.28	0.945	2.435	4.7	7.57	9.845	gamma	3.36	3.49
farmer	63	17.1	15.8	0.736	3.18	9.06	12.1	20.4	34.9	44	Weibull	16.3	13.1
raiser	80	15.9	15.47	0.396	1.89	6.13	10.8	19.6	34.9	44	Weibull	15.2	14.4

\*in g WW/kg/day

Data were obtained from Tables 13-28 and 11-2 of the *Exposure Factors Handbook* (U.S. EPA, 1997b). Data for consumption of home-produced dairy (in g WW/kg/d) were presented for 20- to 39-year-olds and farmers (Table 13-28). Per capita intake data for dairy products (including store-bought products) were available for <1, 1- to 2-, 3- to 5-, 6- to 11-, and 12- to 19-year-olds (Table 11-2). Weighted averages of percentiles, mean, and standard deviations were calculated for the child 1 age group (combined 1- to 2- and 3- to 5-year-olds). Percentile data were used to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood estimation. Measures of goodness-of-fit were used to select the most appropriate model. The fraction of dairy intake that is home produced is 0.254 for households that farm (Table 13-71, U.S. EPA 1997b).

*Beef*

GROUP	N	DATA MEAN	DATA SDEV	P01	P05	P50	P90	P95	P99	distribution	pop estd MEAN	pop estd SDEV
age 1-5		ND	ND							lognormal	3.88	4.71
age 6-11	38	3.77	3.662		0.663	2.11	11.4	12.5		lognormal	3.88	4.71
age 12-19	41	1.72	1.044		0.478	1.51	3.53	3.57		gamma	1.77	1.12
age 20+	188	1.937	1.626		0.357	1.551	4.444	5.88		lognormal	2.12	2.29
farmer	182	2.63	2.644	0.27	0.394	1.64	5.39	7.51	11.3	lognormal	2.5	2.69
raiser	239	2.66	2.474	0.183	0.388	1.83	5.39	7.51	12.5	lognormal	2.71	2.92

\*in g WW/kg/day

Home-produced beef consumption data were obtained from Table 13-36 of the *Exposure Factors Handbook* (U.S. EPA, 1997b). Data (in g WW/kg/d) were presented for 6- to 11-, 12- to 19-, 20- to 39-, and 40- to 69-year-olds and farmers. Percentile data were used to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood estimation. Measures of goodness-of-fit were used to select the most appropriate model. The fraction of beef intake that is home produced is 0.485 for households that farm (Table 13-71, U.S. EPA, 1997b).

Data were not available for 1- to 2- and 3- to 5-year-olds. For beef consumption for 1- to 5-year-olds, the lognormal model was used because, among the other age groups, it was the best fitted model in all but one case. Population-estimated means and standard deviations for 6- to 11-year-olds were used for the analysis (normalized for body weight) and are supported by data in Table 11-3 (per capita intake for beef, including store-bought products), which indicate that 1- to 2-, 3- to 5-, and 6- to 11-year-olds have the highest consumption rate of beef on a g/kg/d basis.

*Fish*

GROUP	N	DATA MEAN	DATA SDEV	P50	P75	P90	P95	distribution	pop estd MEAN	pop estd SDEV
all ages	1053	6.4		2	5.8	13	26	lognormal	6.48	19.9

\*in g/day

Fish consumption data were obtained from Table 10-64 of the *Exposure Factors Handbook* (U.S. EPA, 1997b). Data (in g/d) were for adult freshwater anglers in Maine. Percentile data were used to fit parametric models (gamma, lognormal, Weibull) and measures of goodness-of-fit were used to select the most appropriate model. The fraction of fish intake that is home caught is 0.325 for households that fish (Table 13-71, U.S. EPA, 1997b).

*Soil Ingestion*

Mean soil ingestion rates were cited as 100 mg/day for the child 1 age group (400 mg/d = upper percentile), 200 mg/d for child 1 age group (conservative estimate), 50 mg/day for adults, and 10 g/d for pica children (Table 4-23, U.S. EPA, 1997a). No percentile data were available. The lognormal model was used for soil consumption for all age groups. Parameter estimates were obtained by assuming CV=0.5, 1, and 1.5 and are as follows:

Age group	DATA MEAN (mg/day)	Distribution	Pop estd MEAN (mg/day)	Pop estd SDEV (CV=0.5)	Pop estd SDEV (CV=1)	Pop estd SDEV (CV=1.5)
age 1-5	100	lognormal	100	50	100	150
age 1-5 conservative	200	lognormal	200	100	200	300
age 6-11	ND	lognormal	50	25	50	75
age 12-19	ND	lognormal	50	25	50	75
adult	50	lognormal	50	25	50	75
pica child	10,000	lognormal	10,000	5,000	10,000	15,000

Population standard deviations based on a CV of 1.5 were used for the analysis. A maximum soil ingestion rate for the child 1 age group was 2,300 mg/d based on the upper end of the range of individual mean daily soil ingestion rates (Table 4-10, U.S. EPA 1997a). Pica children were not included because of limited data and recommendations that pica intake rates should be used in acute exposure assessments (U.S. EPA, 1997a). Adult data were used for children over age 5.

*Inhalation Rate*

In an analysis of inhalation data by Myers et al. (1998), it was found that, for ages under 3, CV was close to 70 percent and for other age groups it was close to 30 percent. Lognormal

distribution was fitted by using  $CV=50\%((30+70)/2)$  for child 1 and  $CV=30\%$  for child 2, child 3, and adult age groups.

Age group	Distribution	Population estd MEAN (m <sup>3</sup> /day)	Population estd SDEV (m <sup>3</sup> /day)
age 1-5	lognormal	7.55	3.78
age 6-11	lognormal	11.75	3.53
age 12-19	lognormal	14.0	4.2
adult	lognormal	13.3	3.99

### *Exposure Duration (Residence Time)*

GROUP	N	DATA MEAN	DATA SDEV	P10	P25	P50	P75	P90	P95	P99	distribution	pop estd MEAN	pop estd SDEV
age 1-5	1	6.5	9.75		3	5	8	13	17	22	lognormal	6.53	5.6
age 6-11	2	8.45	12.7		4.5	7.5	11	15.5	18	22	gamma	8.38	5.2
age 12-19	3	8.867	13.33		4.67	8	12	16	18.33	23	Weibull	8.76	5.27
age 20+	1	13.5	20.25		6	11	18	27	35	47	gamma	13.5	10.3
all ages	1	11.7	17.55	2	3	9	16	26	33	47	Weibull	11.6	10.5
farmer		17.31	18.69		2.4	10	26.7	48.3	58.4		gamma	17.31	18.69

\*in years

For residence duration (in years) for farmers and residents (Israeli and Nelson, 1992, as cited in U.S. EPA, 1997c, Tables 15-163 and 15-164), the gamma model was used because it was the best fitted model in five age groups and was the second best fitted model in two cases (based on data by Johnson and Capel 1992 as cited in U.S. EPA, 1997c, Tables 15-167 and 15-168). A population mean and a population standard deviation of 17.31 and 18.69 years, respectively, for farmers and 11.7 and 17.55 years, respectively, for adult residents (age 20+) were used in the analysis. The exposure duration distribution for farmers was used for both adult farmers and children of farmers. The exposure duration for residential children was based on the starting age class as defined in the table above. Methods used to estimate exposure and risk to children are described in detail below.

Percentile data were used to fit parametric models (gamma, lognormal, Weibull) using maximum likelihood estimation. Measures of goodness-of-fit were used to select the most appropriate model.

### *Maximum and Minimum Values*

Minimum and maximum values were selected for many of the exposure factors to prevent selection of an input value that is clearly unreasonable (e.g., exposure duration of 150 years, soil intake of 1 kg/d, etc.). Minimum and maximum values for the various parameters are listed in Appendix K. In some cases, the *Exposure Factors Handbook* (U.S. EPA, 1997b) reported 100<sup>th</sup> percentile values for intake rates. If a 100<sup>th</sup> percentile value was reported, it was selected as a practical maximum value. The 100<sup>th</sup> percentile values represent maximum values recorded in the surveys that were used to develop the distributions. If a 100<sup>th</sup> percentile value was not reported, then the 95<sup>th</sup> or 99<sup>th</sup> percentile value was selected and multiplied by 2 to derive a maximum value. Maximum values for exposure duration were based on professional judgment. Maximum values of 30 years and 50 years were selected for children and adults, respectively.

It was not always necessary to select a minimum value because the distributions approach, but never reach, zero. Body weight and inhalation rate are two parameters that have obvious limits on how low the values can be. The minimum body weights were derived as half of the 5<sup>th</sup> percentile values. Body weights for all women age 18 to 74 were used to set the minimum adult body weight (Table 7-5 in U.S. EPA, 1997a). The minimum inhalation rate for adults was set at half the average resting inhalation rate for women (Table 5-6 in U.S. EPA, 1997a).

### **Methodology**

This section describes how the Monte Carlo analyses for EDC/VCM wastewater sludge managed in an LTU or a landfill, and wastewaters managed in an aerated tank were conducted. Crystal Ball™ version 4.0d, spreadsheet modeling, and computer programs were used. All Monte Carlo analyses for adult receptors exposed to EDC/VCM sludges via non-groundwater pathways were conducted with Crystal Ball™ version 4.0d. Each iteration consisted of selecting one of the available samples to establish the starting waste concentration, receptor distance, fraction organic carbon in the waste, body weight, exposure duration, and applicable intake rates. For groundwater pathways, a groundwater concentration was selected from the PDF generated by groundwater fate and transport modeling (see Appendix F.1) followed by selecting a body weight, exposure duration, and intake rate. The Monte Carlo analyses for wastewaters was conducted using CHEMDAT8 (emission model), ISCT3 (dispersion model) (see Appendix D-3) and a spreadsheet model to generate PDFs for media concentrations. The PDFs for media concentrations were used by a computer program to generate risk estimates.

Each of the dioxin congeners were included as separate constituents in the fate and transport modeling and exposure modeling. However, dioxin risks were expressed as “total dioxin toxicity equivalents (TEQs) by adding risk from each congener. Table F.2-1 lists the applicable intake rates evaluated for each receptor in the Monte Carlo analysis.

**Table F.2-1. Receptor-Specific Intakes**

Receptor	Intake							
	Soil	Vegetables	Root Crops	Fruit	Beef	Dairy	Fish	Water
Resident <sup>a</sup>	✓							✓
Gardener	✓	✓	✓	✓				✓
Fisher							✓	✓
Farmer <sup>a</sup>	✓	✓	✓	✓	✓	✓		✓

<sup>a</sup>Includes both adult and child receptors.

### *Adult Receptors*

Intake rates were selected independently from other intake rates and body weights. That is, high intake rates were not correlated with body weights nor did a high intake rate for one parameter influence the intake rate for another parameter. Although it is reasonable to assume that intake rates of some food items may be correlated with body weight, sufficient data were not presented in the *Exposure Factors Handbook* to derive appropriate correlation coefficients. Therefore, the options were to assume either no correlation or perfect correlation. Some people may eat relatively large amounts of certain foods and relatively small amounts of other types of foods. Furthermore, since intakes of food items are normalized to body weight, any correlations of intake rates and body weight would be minimized. Ten thousand Monte Carlo realizations (EDC/VCM sludge analyses) and 7,728,000 Monte Carlo realizations (wastewaters) were run for each receptor creating a PDF for risk for each constituent and pathway evaluated.

### *Child Receptors*

Monte Carlo risk analysis for children was complicated by the fact that parameter distributions are based on specified age cohorts. Three age cohorts were used to represent children in the Monte Carlo analysis. These included ages 1 to 5 (child 1), 6 to 11 (child 2), and 12 to 19 (child 3). Children under the age of 1 were not included in the analysis for several reasons: most of the exposure pathways were not applicable to infants (e.g., beef intake), any exposure as an infant likely would be small compared to total exposure, and infants were not considered in the deterministic risk analysis. Therefore, it was necessary to develop a method that could address changing body weights and intake rates as the child ages. This type of analysis was done with a separate program outside of Crystal Ball™ as described below.

Monte Carlo risk analysis was conducted for a child of a farmer (ingestion of soil, fruit, vegetables, root vegetables, dairy, beef, and groundwater) and a child resident (ingestion of soil and groundwater). Ingestion of groundwater was run separately from the non-groundwater pathways. The media concentrations resulting from each iteration in the adult resident analysis were saved to a file and body weights, exposure durations, and relevant intake rates for each child cohort and an adult cohort were added to complete the file. The adult cohort was necessary because some of the children age into adults before exposure ceases. Since a maximum exposure duration of 30 years was selected, the oldest age at the end of exposure would be 49 (maximum

age of 19 at first exposure and a maximum exposure duration of 30 years). For each iteration, the program would select a starting age. The exposure duration and intake rates for the starting age would be used for subsequent years until the child aged into the next cohort. Once the child aged into the next cohort, new intake rates and body weights would be selected; however, the initial exposure duration would remain (i.e., new exposure durations were not selected each time a child aged into the next cohort). Correlations of body weights and correlation of intake rates were maintained as the child aged from one cohort to the next. That is, if the child 1 body weight or an intake rate was in the 75<sup>th</sup> percentile, the child 2 and 3 body weights or intake rates also would be 75<sup>th</sup> percentile values. Body weights were not correlated with intake rates, nor were intake rates for different parameters correlated with each other (e.g., the body weight could be the 25<sup>th</sup> percentile, beef intake could be the 40<sup>th</sup> percentile, and vegetable intake could be the 90<sup>th</sup> percentile).

The Monte Carlo analysis considered cumulative risk arising from exposure to multiple dioxin congeners and, for each chemical (dioxins, arsenic, or chromium), multiple exposure pathways, e.g. soil ingestion or beef ingestion. The varying exposures and subsequent risk that a selected child cohort might experience as it ages into and through older cohorts during the exposure duration is explicitly considered in the analysis. The exposure and risk equations are presented below, followed by an overview of the implementation methodology.

The exposure (mg/kg-d) for a child in cohort age category *i* during year *j* exposed to chemical *k* in pathway *l* is calculated as

$$EXP_{ijkl} = CONC_{jkl} * INTAKE_i * FR_k \quad (1)$$

where

$EXP_{ijkl}$	=	exposure
$CONC_{jkl}$	=	chemical concentration
$INTAKE_i$	=	intake rate
$FR_k$	=	fraction of the media that is contaminated by the chemical.

For media where CONC is given as mg(chemical) per kg(media), e.g., soil, INTAKE rates are expressed in units of kg(media), and the INTAKE rate in equation 1 is also divided by the child's body weight (kg) to result in EXP units of mg(chemical) per kg(body weight). For media where INTAKE is already normalized to body weight, equation 1 is used as presented above. (For drinking water pathways, CONC is given in mg(chemical) per liter of water and INTAKE is in units of liters per day.

The cumulative lifetime risk,  $RISK_i$  (probability units), for a child in cohort age category *i* exposed to multiple dioxin congeners *k* in multiple pathways *l* over an exposure duration of years *j* is calculated as



$$RISK_i = \frac{350}{365 * 70} \sum_{j=1}^{EXDUR} \sum_{k=1}^{NChem} \sum_{l=1}^{NPath} (EXP_{ijkl} * CSF_i) \quad (2)$$

where

CSF <sub>i</sub>	= (lifetime) cancer slope factor (kg-d/mg)
NChem	= number of congeners
Npath	= number of pathways
EXDUR	= exposure duration (years).

The ratio 350/(365\*70) disaggregates lifetime cumulative risk to cumulative risk incurred only during the exposure duration. It is assumed that a lifetime is 70 years and that exposure is limited to 350 days each year.

The implementation of Equations 1 and 2 in the Monte Carlo framework is illustrated in Figure F.2-1. Input parameters driving the overall analysis consist of the cohort age category of interest (i), number of Monte Carlo simulations (NMC), number of congeners (NChem) (for dioxins), and number of pathways (NPath). Given the cohort age category i, the minimum and maximum ages for that category are read in preparation for subsequent random age sampling. Three child cohort categories—1 to 5, 6 to 11, and 11 to 19—are considered. Beyond age 19, the individual is considered to be an adult for purposes of exposure and risk. Within each Monte Carlo loop, equations 1 and 2 are evaluated for the parameters corresponding to that Monte Carlo realization. A starting age, exposure duration, body weight, and intake rate for each pathway are first randomly selected from the PDFs for the cohort. A uniform distribution is assumed for starting age. Within the exposure duration loop, the cohort is aged each year, which may move it into a subsequent age category. When and if the child ages into the next cohort category, a new body weight is read that maintains the percentile of the original, randomly sampled, body weight for the beginning age category as discussed above. In addition, as different pathways are encountered within the pathway loop, the pathway- and cohort-specific intake rate is read that maintains the percentile of the original, randomly sampled, intake rate for the beginning age category. Ten thousand Monte Carlo realizations for each child receptor were run for both groundwater and non-groundwater pathways. The results were saved in a spreadsheet and sorted. Statistical analysis of the sorted values was used to derive selected risk percentiles.

### *Wastewaters*

The Monte Carlo analysis conducted for wastewaters was limited to two receptors (farmer and child of farmer) because these were the only receptors with risk greater than 10<sup>-6</sup> in the deterministic analyses. CHEMDAT8 and ISCT3 were used to estimate emission and dispersion values for all possible combinations of 6 waste samples, 8 waste quantities, 23 locations, and 7 receptor distances resulting in 7,728 possible combinations. Media (soil, vegetable, root vegetable, fruit, beef, and dairy) concentrations for all dioxin congeners were

estimated using fate and transport models described in Appendix D for all possible combinations. The Monte Carlo simulations for the 7,728 sets of dioxin congener media concentrations were consistent with the Monte Carlo analyses conducted for EDC/VCM wastewater sludge. A SAS© program written specifically for this risk assessment was used. Model inputs included media concentrations, media intake rates, body weights (soil only), age at first exposure (for children), exposure duration, and percentage of total intake that is assumed to be contaminated. PDFs for the exposure factors are shown in Figure F.2-2 (child receptors) and Figure F.2-3 (adult receptors). One thousand Monte Carlo realizations were generated for each of the sets of dioxin congener media concentrations resulting in PDF for risk containing 7,728,000 values. These values were saved and risk percentiles reported.



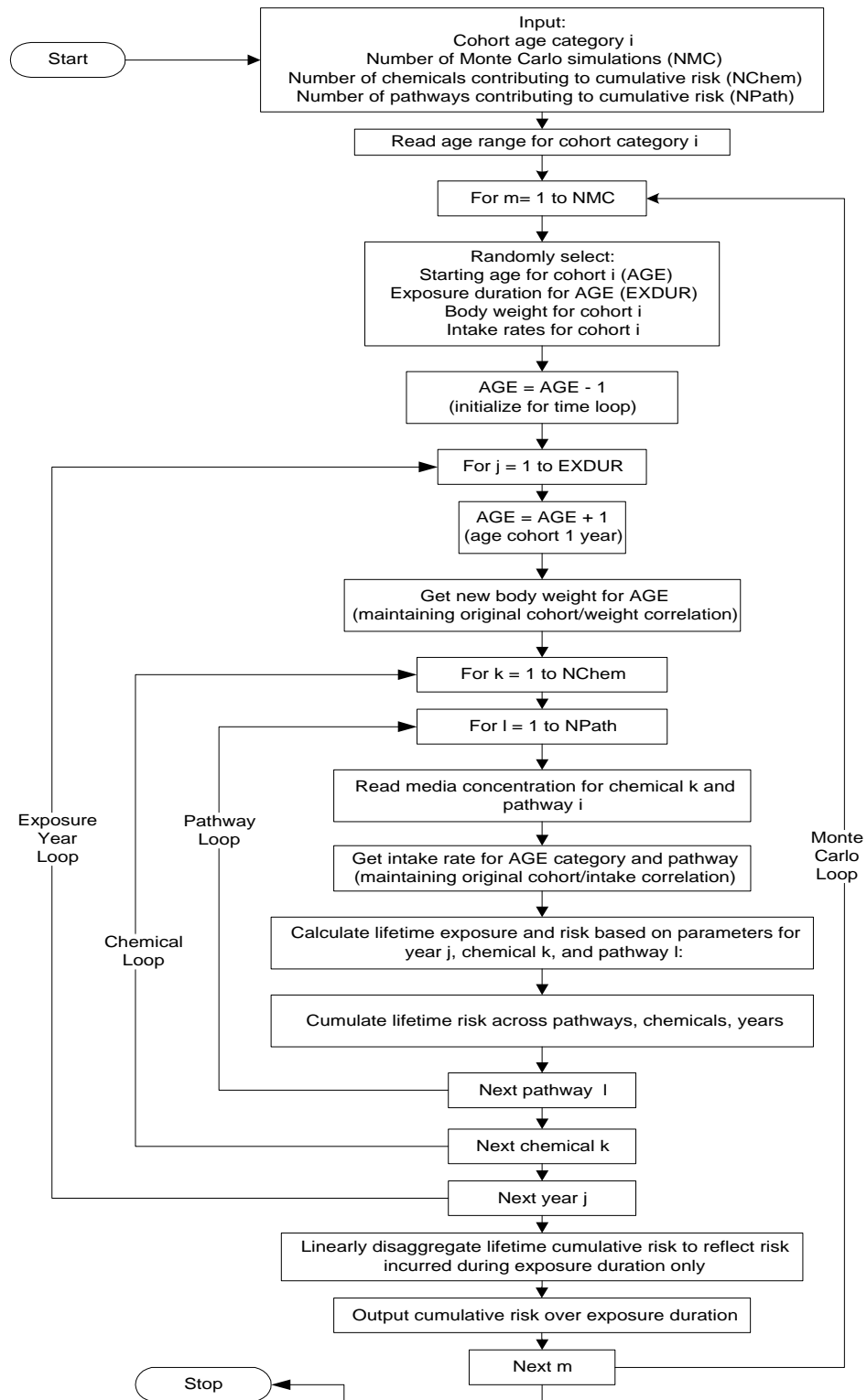


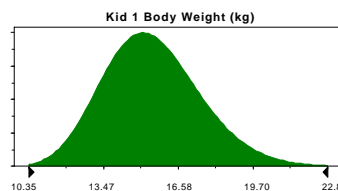
Figure F.2-1. Monte Carlo Framework for Child Cohorts.

**Kid 1 Body Weight (kg)**

Lognormal distribution with parameters:  
 Mean 15.50  
 Standard Dev. 2.05

Selected range is from 6.10 to 39.00

Correlated with:  
 Kid 2 Body Weight 1.00  
 Kid 3 Body Weight 1.00  
 Adult Body Weight 1.00

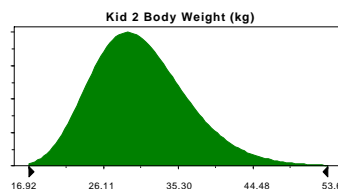


**Kid 2 Body Weight (kg)**

Lognormal distribution with parameters:  
 Mean 30.70  
 Standard Dev. 5.96

Selected range is from 11.30 to 86.90

Correlated with:  
 Kid 1 Body Weight 1.00

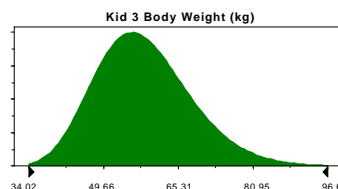


**Kid 3 Body Weight (kg)**

Lognormal distribution with parameters:  
 Mean 58.20  
 Standard Dev. 10.20

Selected range is from 20.90 to 165.80

Correlated with:  
 Kid 1 Body Weight 1.00

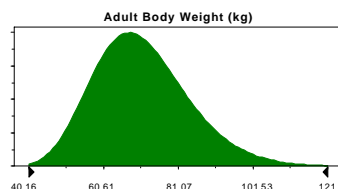


**Adult Body Weight (kg)**

Lognormal distribution with parameters:  
 Mean 71.20  
 Standard Dev. 13.30

Selected range is from 24.00 to 205.00

Correlated with:  
 Kid 1 Body Weight 1.00



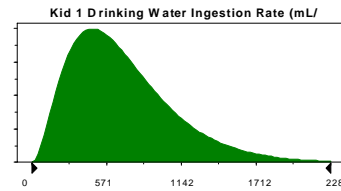
**Figure F.2-2. Monte Carlo Exposure Factor Distributions for Child Receptors**

**Kid 1 Drinking Water Ingestion Rate (mL/day)**

Gamma distribution with parameters:  
 Location 0  
 Scale 237  
 Shape 2.95

Selected range is from 0 to 4000

Correlated with:  
 Kid 2 Drinking Water Ingestion Rate 1.00  
 Kid 3 Drinking Water Ingestion Rate 1.00  
 Adult Drinking Water Ingestion Rate 1.00

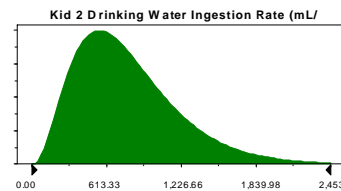


**Kid 2 Drinking Water Ingestion Rate (mL/day)**

Gamma distribution with parameters:  
 Location 0.00  
 Scale 235.09  
 Shape 3.35

Selected range is from 0.00 to 4,000.00

Correlated with:  
 Kid 1 Drinking Water Ingestion Rate 1.00

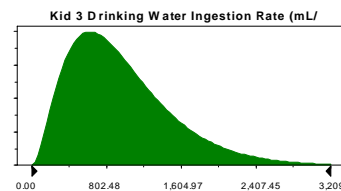


**Kid 3 Drinking Water Ingestion Rate (mL/day)**

Gamma distribution with parameters:  
 Location 0.00  
 Scale 341.82  
 Shape 2.82

Selected range is from 0.00 to 6,000.00

Correlated with:  
 Kid 1 Drinking Water Ingestion Rate 1.00

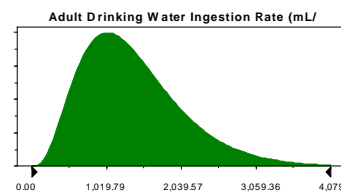


**Adult Drinking Water Ingestion Rate (mL/day)**

Gamma distribution with parameters:  
 Location 0.00  
 Scale 356.85  
 Shape 3.88

Selected range is from 0.00 to 8,000.00

Correlated with:  
 Kid 1 Drinking Water Ingestion Rate 1.00

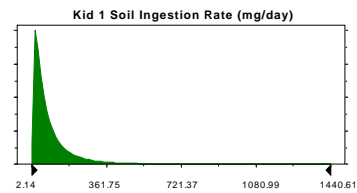


**Figure F.2-2. Continued**

**Kid 1 Soil Ingestion Rate (mg/day)**

Lognormal distribution with parameters:  
 Mean 100.00  
 Standard Dev. 150.00

Selected range is from 0.00 to 2300.00



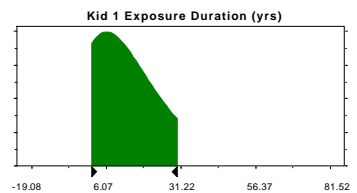
**Kid 1 Exposure Duration (yrs) Child of Farmer**

Extreme Value distribution with parameters:  
 Mode 6.07  
 Scale 12.58

Selected range is from 1.00 to 30.00

Correlated with:

Kid 2 Exposure Duration (yrs) (E5) 1.00  
 Kid 3 Exposure Duration (yrs) (H5) 1.00  
 Adult Body Weight (kg) (J5) 1.00



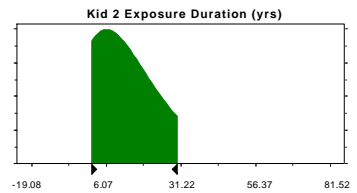
**Kid 2 Exposure Duration (yrs) Child of Farmer**

Extreme Value distribution with parameters:  
 Mode 6.07  
 Scale 12.58

Selected range is from 1.00 to 30.00

Correlated with:

Kid 1 Exposure Duration (yrs) (B5) 1.00



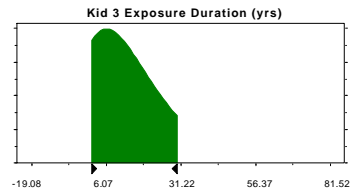
**Kid 3 Exposure Duration (yrs) Child of Farmer**

Extreme Value distribution with parameters:  
 Mode 6.07  
 Scale 12.58

Selected range is from 1.00 to 30.00

Correlated with:

Kid 1 Exposure Duration (yrs) (B5) 1.00



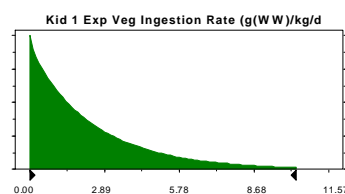
**Figure F.2-2. Continued**

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**Kid 1 Exp Veg Ingestion Rate (g(WW)/kg/d)**

Gamma distribution with parameters:  
 Location 0.00  
 Scale 2.62  
 Shape 0.97

Selected range is from 0.00 to 10.30

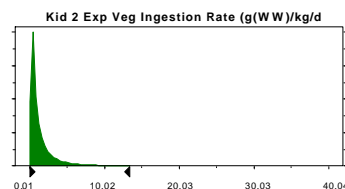


Correlated with:  
 Kid 2 Exp Veg Ingestion Rate 1.00  
 Kid 3 Exp Veg Ingestion Rate 1.00  
 Adult Exp Veg Ingestion Rate 1.00

**Kid 2 Exp Veg Ingestion Rate (g(WW)/kg/day)**

Lognormal distribution with parameters:  
 Mean 1.64  
 Standard Dev. 3.95

Selected range is from 0.00 to 13.30

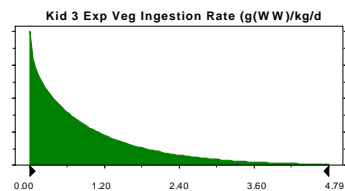


Correlated with:  
 Kid 1 Exp Veg Ingestion Rate 1.00

**Kid 3 Exp Veg Ingestion Rate (g(WW)/kg/day)**

Gamma distribution with parameters:  
 Location 0.00  
 Scale 1.19  
 Shape 0.91

Selected range is from 0.00 to 5.67

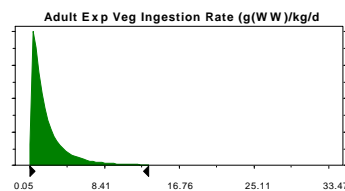


Correlated with:  
 Kid 1 Exp Veg Ingestion Rate 1.00

**Adult Exp Veg Ingestion Rate (g(WW)/kg/day)**

Lognormal distribution with parameters:  
 Mean 2.38  
 Standard Dev. 3.50

Selected range is from 0.00 to 13.30



Correlated with:  
 Kid 1 Exp Veg Ingestion Rate 1.00

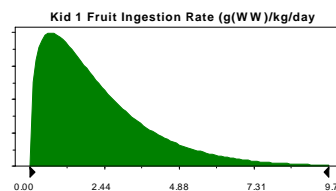
**Figure F.2-2. Continued**

**Kid 1 Fruit Ingestion Rate (g(WW)/kg/day)**

Gamma distribution with parameters:  
 Location 0.00  
 Scale 1.58  
 Shape 1.43

Selected range is from 0.00 to 32.50

Correlated with:  
 Kid 2 Fruit Ingestion Rate 1.00  
 Kid 3 Fruit Ingestion Rate 1.00  
 Adult Fruit Ingestion Rate 1.00

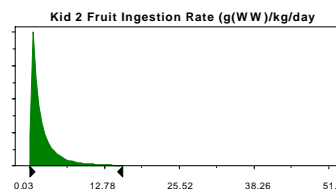


**Kid 2 Fruit Ingestion Rate (g(WW)/kg/day)**

Lognormal distribution with parameters:  
 Mean 2.78  
 Standard Dev. 5.12

Selected range is from 0.00 to 15.90

Correlated with:  
 Kid 1 Fruit Ingestion Rate 1.00

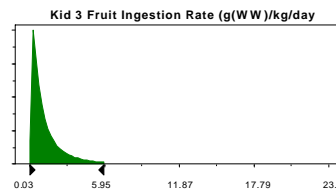


**Kid 3 Fruit Ingestion Rate (g(WW)/kg/day)**

Lognormal distribution with parameters:  
 Mean 1.54  
 Standard Dev. 2.44

Selected range is from 0.00 to 5.90

Correlated with:  
 Kid 1 Fruit Ingestion Rate 1.00

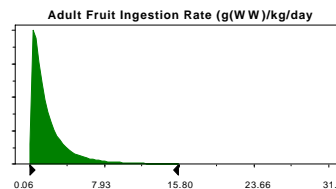


**Adult Fruit Ingestion Rate (g(WW)/kg/day)**

Lognormal distribution with parameters:  
 Mean 2.36  
 Standard Dev. 3.33

Selected range is from 0.00 to 15.70

Correlated with:  
 Kid 1 Fruit Ingestion Rate 1.00



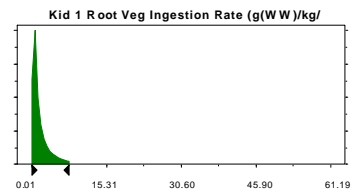
**Figure F.2-2. Continued**

**Kid 1 Root Veg Ingestion Rate (g(WW)/kg/**

Lognormal distribution with parameters:  
 Mean 2.31  
 Standard Dev. 6.05

Selected range is from 0.00 to 7.49

Correlated with:  
 Kid 2 Root Veg Ingestion Rate 1.00  
 Kid 3 Root Veg Ingestion Rate 1.00  
 Adult Root Veg Ingestion Rate 1.00

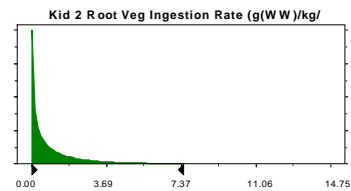


**Kid 2 Root Veg Ingestion Rate (g(WW)/kg/**

Weibull distribution with parameters:  
 Location 0.00  
 Scale 1.06  
 Shape 0.68

Selected range is from 0.00 to 7.47

Correlated with:  
 Kid 1 Root Veg Ingestion Rate 1.00

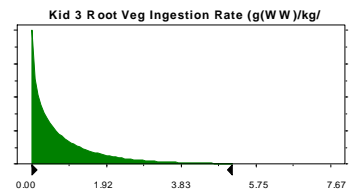


**Kid 3 Root Veg Ingestion Rate (g(WW)/kg/**

Weibull distribution with parameters:  
 Location 0.00  
 Scale 0.91  
 Shape 0.84

Selected range is from 0.00 to 5.13

Correlated with:  
 Kid 1 Root Veg Ingestion Rate 1.00

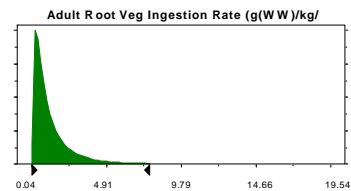


**Adult Root Veg Ingestion Rate (g(WW)/kg/**

Lognormal distribution with parameters:  
 Mean 1.45  
 Standard Dev. 2.06

Selected range is from 0.00 to 7.69

Correlated with:  
 Kid 1 Root Veg Ingestion Rate 1.00



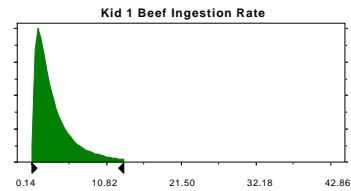
**Figure F.2-2. Continued**

**Kid 1 Beef Ingestion Rate**

Lognormal distribution with parameters:  
 Mean 3.88  
 Standard Dev. 4.71

Selected range is from 0.00 to 13.30

Correlated with:  
 Kid 2 Beef Ingestion Rate 1.00  
 Kid 3 Beef Ingestion Rate 1.00  
 Adult Beef Ingestion Rate 1.00

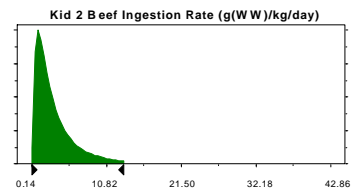


**Kid 2 Beef Ingestion Rate (g(WW)/kg/day)**

Lognormal distribution with parameters:  
 Mean 3.88  
 Standard Dev. 4.71

Selected range is from 0.00 to 13.30

Correlated with:  
 Kid 1 Beef Ingestion Rate 1.00

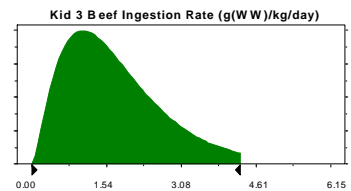


**Kid 3 Beef Ingestion Rate (g(WW)/kg/day)**

Gamma distribution with parameters:  
 Location 0.00  
 Scale 0.71  
 Shape 2.47

Selected range is from 0.00 to 4.28

Correlated with:  
 Kid 1 Beef Ingestion Rate 1.00

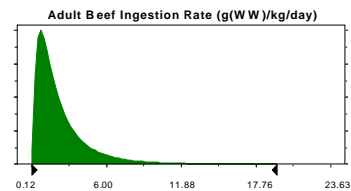


**Adult Beef Ingestion Rate (g(WW)/kg/day)**

Lognormal distribution with parameters:  
 Mean 2.50  
 Standard Dev. 2.69

Selected range is from 0.00 to 19.40

Correlated with:  
 Kid 1 Beef Ingestion Rate 1.00



**Figure F.2-2. Continued**

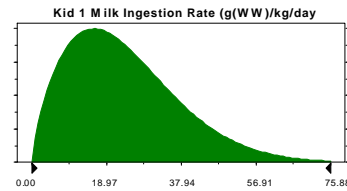
US EPA ARCHIVE DOCUMENT



**Kid 1 Milk Ingestion Rate (g(WW)/kg/day)**

Weibull distribution with parameters:  
 Location 0.00  
 Scale 26.47  
 Shape 1.7

Selected range is from 0.00 to 109.00

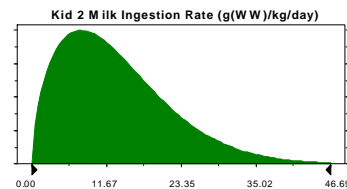


Correlated with:  
 Kid 2 Milk Ingestion Rate 1.00  
 Kid 3 Milk Ingestion Rate 1.00  
 Adult Dairy Ingestion Rate 1.00

**Kid 2 Milk Ingestion Rate (g(WW)/kg/day)**

Weibull distribution with parameters:  
 Location 0.00  
 Scale 14.82  
 Shape 1.56

Selected range is from 0.00 to 62.60

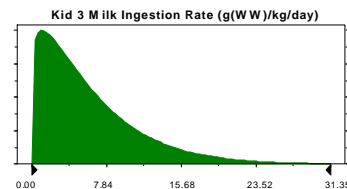


Correlated with:  
 Kid 1 Milk Ingestion Rate 1.00

**Kid 3 Milk Ingestion Rate (g(WW)/kg/day)**

Weibull distribution with parameters:  
 Location 0.00  
 Scale 6.52  
 Shape 1.14

Selected range is from 0.00 to 53.50

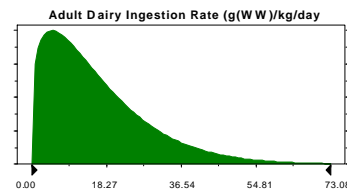


Correlated with:  
 Kid 1 Milk Ingestion Rate 1.00

**Adult Dairy Ingestion Rate (g(WW)/kg/day)**

Weibull distribution with parameters:  
 Location 0.00  
 Scale 17.45  
 Shape 1.25

Selected range is from 0.00 to 111.00



Correlated with:  
 Kid 1 Milk Ingestion Rate 1.00

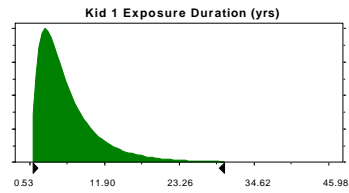
**Figure F.2-2. Continued**

**Kid 1 Exposure Duration (yrs) Child of Resident**

Lognormal distribution with parameters:  
 Mean 6.53  
 Standard Dev. 5.60

Selected range is from 1.00 to 30.00

Correlated with:  
 Kid 2 Exposure Duration 1.00  
 Kid 3 Exposure Duration 1.00

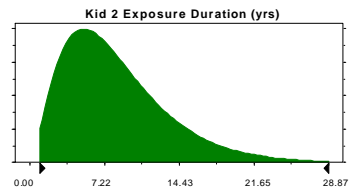


**Kid 2 Exposure Duration (yrs) Child of Resident**

Gamma distribution with parameters:  
 Location 0.00  
 Scale 3.23  
 Shape 2.6

Selected range is from 1.00 to 30.00

Correlated with:  
 Kid 1 Exposure Duration 1.00

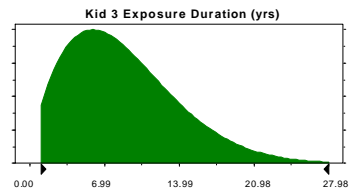


**Kid 3 Exposure Duration (yrs) Child of Resident**

Weibull distribution with parameters:  
 Location 0.00  
 Scale 9.82  
 Shape 1.71

Selected range is from 1.00 to 30.00

Correlated with:  
 Kid 1 Exposure Duration 1.00



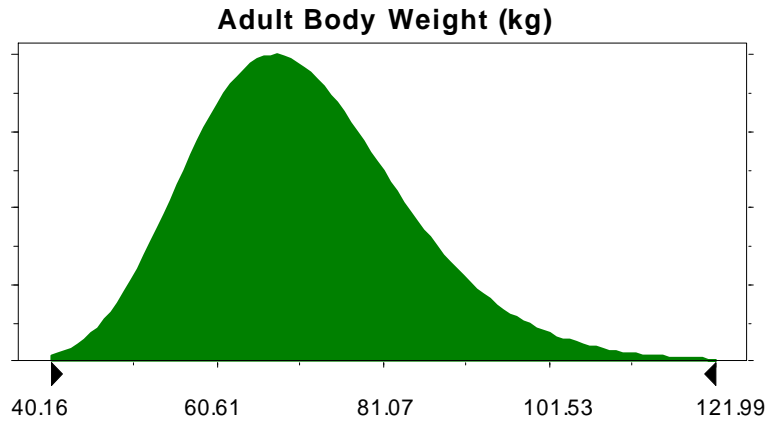
**Figure F.2-2. Continued**

**Adult Body Weight (kg)**

Lognormal distribution with parameters:

Mean	71.20
Standard Dev.	13.30

Selected range is from 24.00 to 205.00

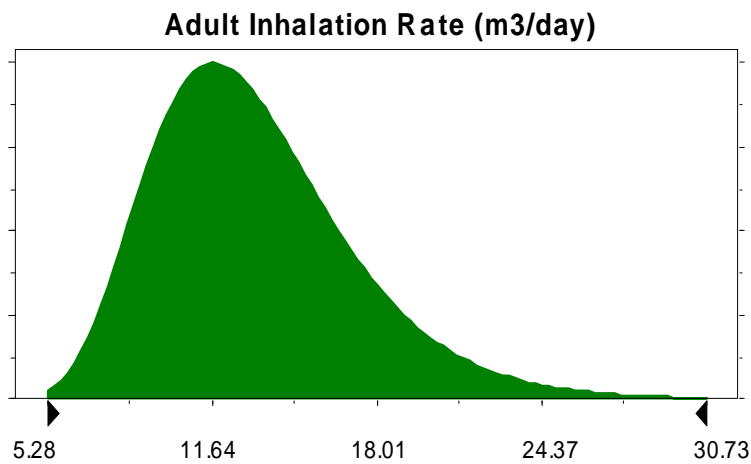


**Adult Inhalation Rate (m3/day)**

Lognormal distribution with parameters:

Mean	13.30
Standard Dev.	3.99

Selected range is from 5.00 to 51.00



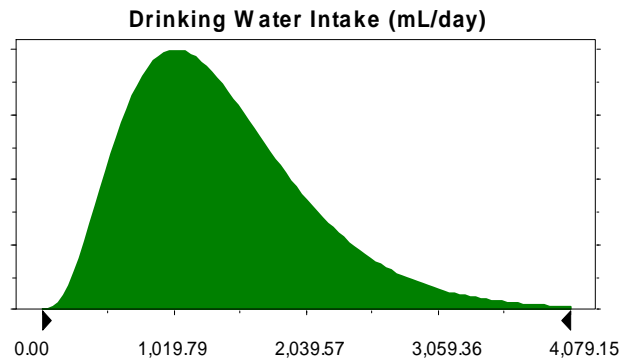
**Figure F.2-3. Monte Carlo Exposure Factor Distributions for Adult Receptors**

**Drinking Water Intake (mL/day)**

Gamma distribution with parameters:

Location	0.00
Scale	356.85
Shape	3.88

Selected range is from 0.00 to 8,000.00

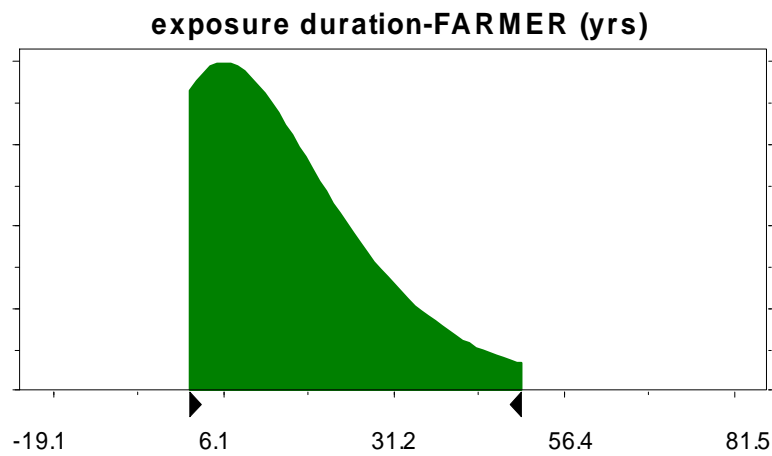


**Exposure Duration Farmer (yrs)**

Extreme Value distribution with parameters:

Mode	6.1
Scale	12.6

Selected range is from 1.0 to 50.0



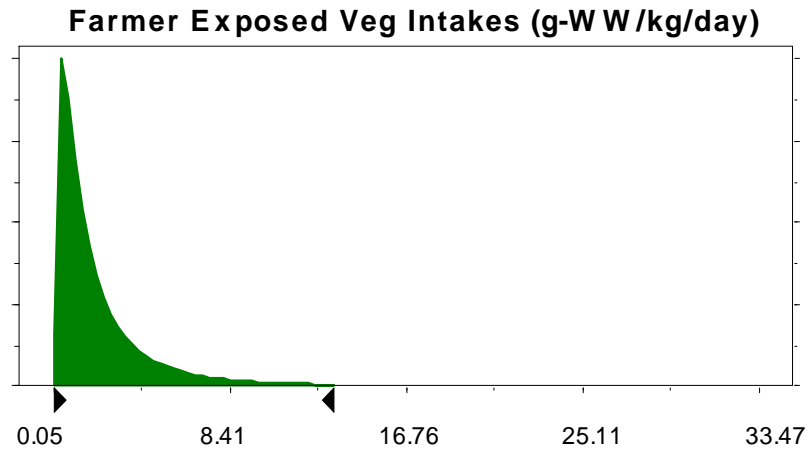
**Figure F.2-3. Continued**

**Farmer Exposed Vegetable Intakes (g-WW/kg/day)**

Lognormal distribution with parameters:

Mean	2.38
Standard Dev.	3.50

Selected range is from 0.00 to 13.30

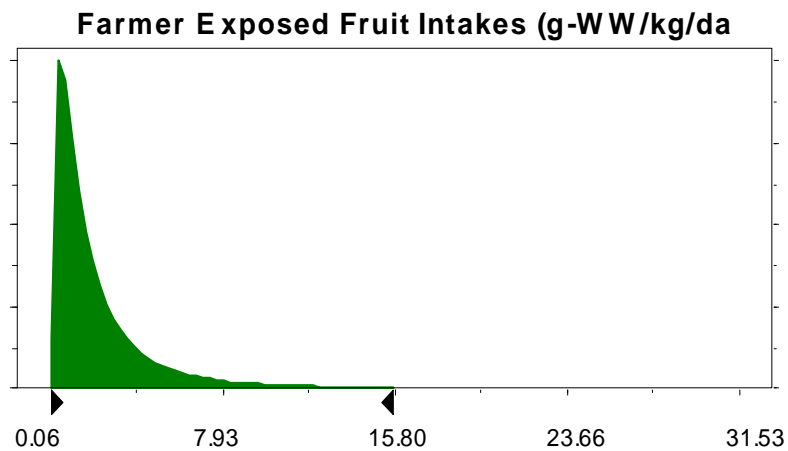


**Farmer Exposed Fruit Intakes (g-WW/kg/day)**

Lognormal distribution with parameters:

Mean	2.36
Standard Dev.	3.33

Selected range is from 0.00 to 15.70



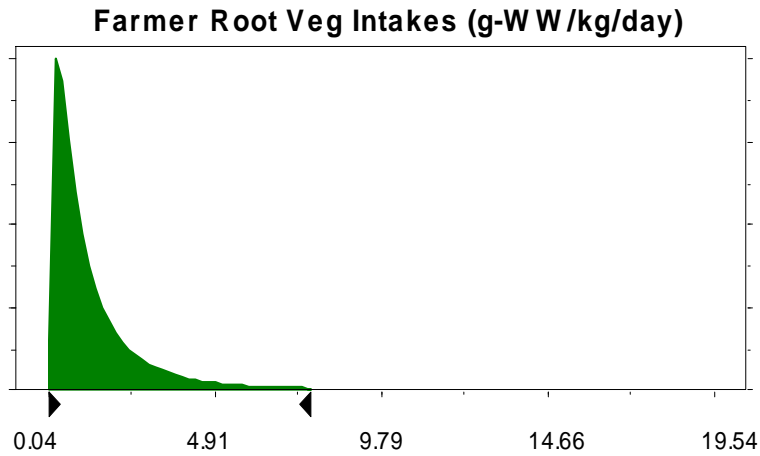
**Figure F.2-3. Continued**

**Farmer Root Vegetable Intakes (g-WW/kg/day)**

Lognormal distribution with parameters:

Mean	1.45
Standard Dev.	2.06

Selected range is from 0.00 to 7.69

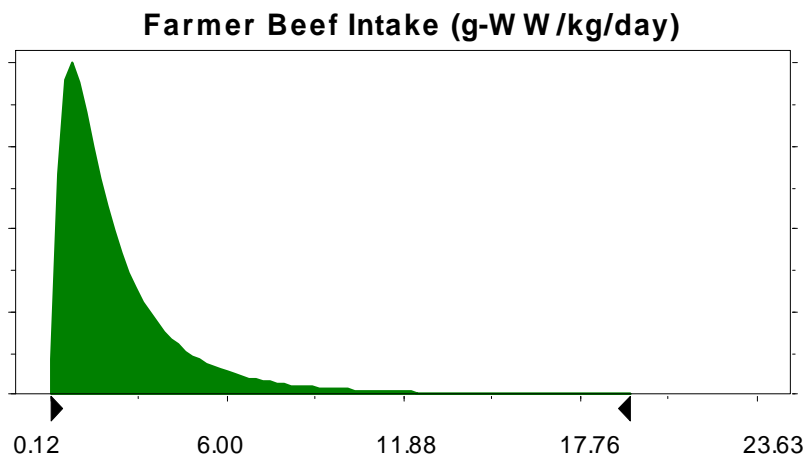


**Farmer Beef Intake (g-WW/kg/day)**

Lognormal distribution with parameters:

Mean	2.50
Standard Dev.	2.69

Selected range is from 0.00 to 19.40



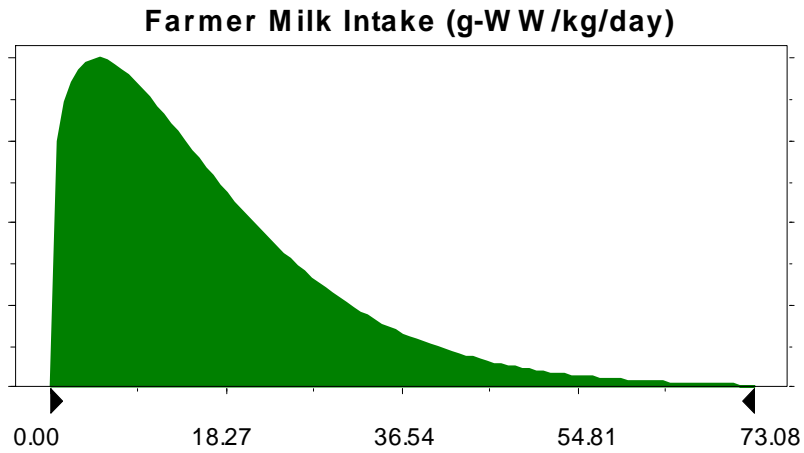
**Figure F.2-3. Continued**

**Farmer Milk Intake (g-WW/kg/day)**

Weibull distribution with parameters:

Location	0.00
Scale	17.45
Shape	1.25

Selected range is from 0.00 to 111.00

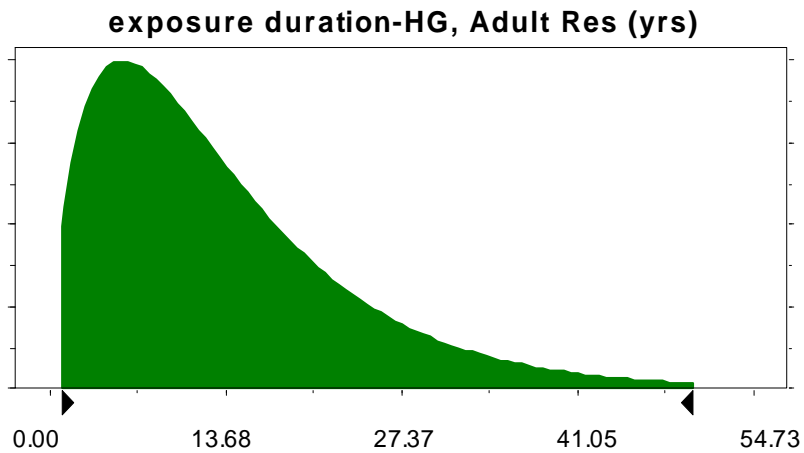


**Exposure Duration Home Gardener, Adult Res, and Fisher (yrs)**

Gamma distribution with parameters:

Location	0.00
Scale	7.91
Shape	1.71

Selected range is from 1.00 to 50.00



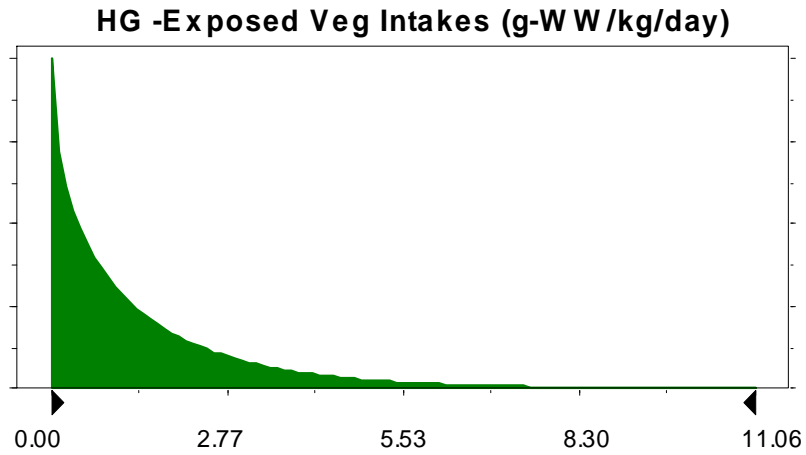
**Figure F.2-3. Continued**

**Home Gardener Exposed Vegetable Intakes (g-WW/kg/day)**

Weibull distribution with parameters:

Location	0.00
Scale	1.48
Shape	0.89

Selected range is from 0.00 to 20.60

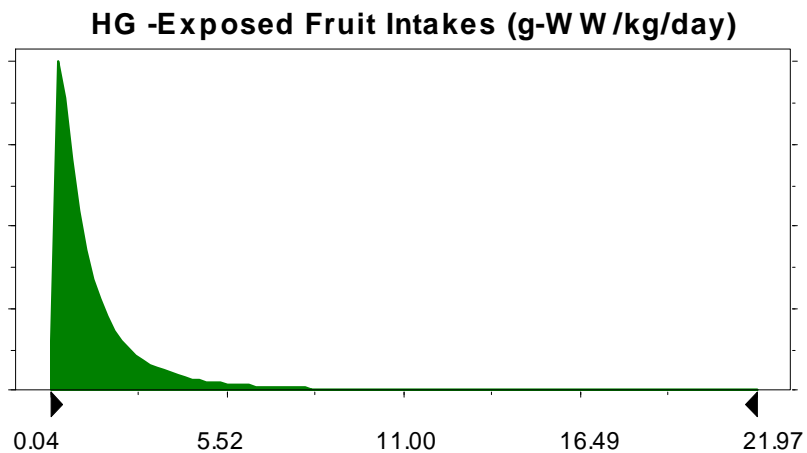


**Home Gardener Exposed Fruit Intakes (g-WW/kg/day)**

Lognormal distribution with parameters:

Mean	1.57
Standard Dev.	2.30

Selected range is from 0.00 to 32.50



**Figure F.2-3. Continued**

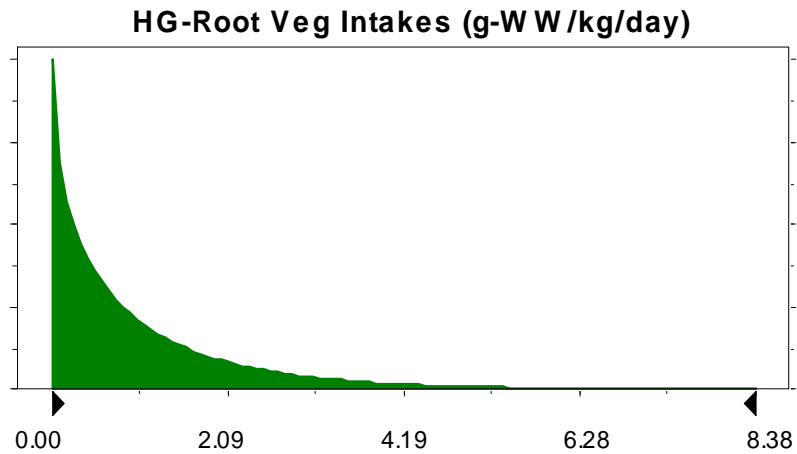


**Home Gardener Root Vegetable Intakes (g-WW/kg/day)**

Weibull distribution with parameters:

Location	0.00
Scale	1.07
Shape	0.87

Selected range is from 0.00 to 12.80

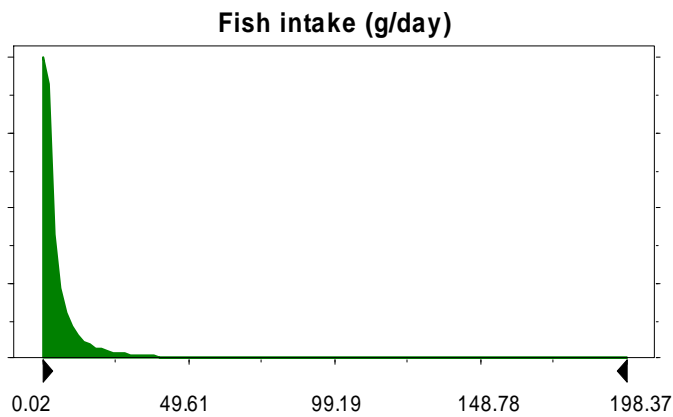


**Fish intake (g/day)**

Lognormal distribution with parameters:

Mean	6.48
Standard Dev.	19.90

Selected range is from 0.00 to 1,500.00



**Figure F.2-3. Continued**

## References

- Myers, L., J. Lashley, and R. Whitmore. 1998. *Development of Statistical Distributions for Exposure Factors, Final Report*. Prepared for U.S. Environmental Protection Agency, Office of Research and Development. Research Triangle Institute, Research Triangle Park, NC.
- U.S. EPA (Environmental Protection Agency). 1997a. *Exposure Factors Handbook Volume I, General Factors*. EPA/600/P-95/002Fa. Office of Research and Development, Washington, DC. August.
- U.S. EPA (Environmental Protection Agency). 1997b. *Exposure Factors Handbook Volume II, Food Ingestion Factors*. EPA/600/P-95/002Fb. Office of Research and Development, Washington, DC. August.
- U.S. EPA (Environmental Protection Agency). 1997c. *Exposure Factors Handbook Volume III, Activity Factors*. EPA/600/P-95/002Fc. Office of Research and Development, Washington, DC. August.

## **Appendix G**

### **Indirect and Direct Exposure Example Calculations for the Farmer EDC/VCM Sludges Managed in a Land Treatment Unit**

**Table G-1.1. Contaminant Intake from Soil**

$I_{soil} = Sc \cdot CR_{soil} \cdot F_{soil}$		
Parameter	Description	Values
$I_{soil}$	Daily intake of contaminant from soil (mg/d)	
Sc	Average soil concentration of pollutant over exposure duration (mg/kg)	calculated (see Table E-4.18.)
$CR_{soil}$	Consumption rate of soil (kg/d)	varies
$F_{soil}$	Fraction of consumed soil contaminated (unitless)	1

**Central Tendency Calculations for Soil Intake***Arsenic (Carcinogen):*

$$Sc = 0.32 \text{ mg/kg}$$

$$CR_{soil} = 5.0E-05 \text{ kg/day}$$

$$F_{soil} = 1$$

$$I_{soil} = 0.32 \text{ mg/kg} * 5.0E-05 \text{ kg/day} * 1$$

$$I_{soil} = 1.6E-05 \text{ mg/d}$$

*Zinc (Non-carcinogen):*

$$Sc = 1.18 \text{ mg/kg}$$

$$CR_{soil} = 5.0E-05 \text{ kg/day}$$

$$F_{soil} = 1$$

$$I_{soil} = 1.18 \text{ mg/kg} * 5.0E-05 \text{ kg/day} * 1$$

$$I_{soil} = 5.9E-05 \text{ mg/d}$$

**Table G-1.2. Contaminant Intake from Exposed Vegetable Intake**

$I_{ev} = (Pd + Pv + Pr) \cdot CR_{ev} \cdot F_{ev}$		
Parameter	Description	Values
$I_{ev}$	Daily intake of contaminant from exposed vegetables (mg/d)	
$Pd$	Concentration in exposed vegetables due to deposition (mg/kg DW)	calculated (see Table E-2.10 for Home Gardener, Table E-3.10 for the Farmer)
$Pv$	Concentration in exposed vegetables due to air-to-plant transfer (mg/kg DW)	calculated (see Table E-2.11 for Home Gardener, Table E-3.11 for the Farmer)
$Pr$	Concentration in exposed vegetables due to root uptake (mg/kg DW)	calculated (see Table E-2.12 for Home Gardener, Table E-3.12 for the Farmer)
$CR_{ev}$	Consumption rate of exposed vegetables (kg DW/d)	varies
$F_{ev}$	Fraction of exposed vegetables contaminated (unitless)	varies

**Central Tendency Calculations for the Exposed Vegetable Intake***Arsenic (Carcinogen):*

$Pd = 4.0E-05$  mg/kg DW  
 $Pv = 0$  mg/kg DW  
 $Pr = 1.2E-02$  mg/kg DW  
 $Cr_{ev} = 7.3E-03$  kg DW/day  
 $F_{ev} = 0.42$

$I_{ev} = (4.0E-05 \text{ mg/kg DW} + 1.2E-02 \text{ mg/kg DW}) * 7.3E-03 \text{ kg DW/day} * 0.42$   
 $I_{ev} = 3.7-05 \text{ mg/d}$

Central Tendency Calculations for the Exposed Vegetable Intake (cont)

*Zinc (Non-carcinogen):*

$$P_d = 3.9E-04 \text{ mg/kg DW}$$

$$P_v = 0 \text{ mg/kg DW}$$

$$P_r = 2.9E-01 \text{ mg/kg DW}$$

$$CR_{ev} = 7.3E-03 \text{ kg DW/day}$$

$$F_{ev} = 0.42$$

$$I_{ev} = (3.9E-04 \text{ mg/kg DW} + 2.9E-01 \text{ mg/kg DW}) * 7.3E-03 \text{ kg DW/day} * 0.42$$

$$I_{ev} = 8.9E-04 \text{ mg/d}$$

**Table G-1.3. Contaminant Intake from Exposed Fruit Intake**

$I_{ef} = (Pd + Pv + Pr) \cdot CR_{ef} \cdot F_{ef}$		
Parameter	Description	Values
$I_{ef}$	Daily intake of contaminant from exposed fruit (mg/d)	
$Pd$	Concentration in exposed fruit due to deposition (mg/kg DW)	calculated
$Pv$	Concentration in exposed fruit due to air-to-plant transfer (mg/kg DW)	calculated (see Table E-2.11 for Home Gardener, Table E-3.11 for the Farmer)
$Pr$	Concentration in exposed fruit due to root uptake (mg/kg DW)	calculated (see Table E-2.12 for Home Gardener, Table E-3.12 for the Farmer)
$CR_{ef}$	Consumption rate of exposed fruit (kg DW/d)	varies
$F_{ef}$	Fraction of exposed fruit contaminated (unitless)	varies

**Central Tendency Calculations for Exposed Fruit Intake***Arsenic (Carcinogen):*

$$Pd = 8.5E-05 \text{ mg/kg DW}$$

$$Pv = 0 \text{ mg/kg DW}$$

$$Pr = 1.2E-02 \text{ mg/kg DW}$$

$$CR_{ef} = 1.2E-02 \text{ kg DW/day}$$

$$F_{ef} = 0.328$$

$$I_{ef} = (8.5E-05 \text{ mg/kg DW} + 1.2E-02 \text{ mg/kg DW}) \cdot 1.2E-02 \text{ kg DW/day} \cdot 0.328$$

$$I_{ef} = 4.5E-05 \text{ mg/d}$$

**Central Tendency Calculations for Exposed Fruit Intake (cont)**

*Zinc (Non-carcinogen):*

$$P_d = 8.2E-04 \text{ mg/kg DW}$$

$$P_v = 0 \text{ mg/kg DW}$$

$$P_r = 2.9E-01 \text{ mg/kg DW}$$

$$CR_{ef} = 1.2E-02 \text{ kg DW/day}$$

$$F_{ef} = 0.33$$

$$I_{ef} = (8.2E-04 \text{ mg/kg DW} + 2.9E-01 \text{ mg/kg DW}) * 1.2E-02 \text{ kg DW/day} * 0.328$$

$$I_{ef} = 1.1E-03 \text{ mg/d}$$



**Table G-1.4. Contaminant Intake from Root Vegetable Intake**

$I_{rv} = Pr_{rv} \cdot CR_{rv} \cdot F_{rv}$		
Parameter	Description	Values
$I_{rv}$	Daily intake of contaminant from root vegetables (mg/d)	
$Pr_{rv}$	Concentration in root vegetables due to deposition for organics (mg/kg WW); metals (mg/kg DW)	calculated (see Table E-2.13 for Home Gardener, Table E-3.13 for the Farmer)
$CR_{rv}$	Consumption rate of root vegetables for dioxins (kg WW/d); metals (kg DW/d)	varies
$F_{rv}$	Fraction of root vegetables contaminated (unitless)	varies

**Central Tendency Calculations for Root Vegetable Intake**

*Note: The model incorrectly used the intake rate based on wet weight (0.053 kg/day) resulting in slightly overestimating risk from root vegetable ingestion. This only affected the adult farmer and had minimal impact on the risk results (arsenic central tendency risk dropped from 5E-07 to 4E-07). Calculations shown use the dry weight intake rate.*

**Arsenic (Carcinogen):**

$$\begin{aligned} Pr &= 2.6E-03 \text{ mg/kg DW} \\ CR_{rv} &= 7.5E-03 \text{ kg DW/day} \\ F_{rv} &= 0.173 \end{aligned}$$

$$\begin{aligned} I_{rv} &= 2.6E-03 \text{ mg/kg DW} * 7.5E-03 \text{ kg DW/day} * 0.173 \\ I_{rv} &= 3.4E-06 \text{ mg/d} \end{aligned}$$

**Zinc (Non-carcinogen):**

$$\begin{aligned} Pr &= 5.2E-02 \text{ mg/kg DW} \\ CR_{rv} &= 7.5E-03 \text{ kg DW/day} \\ F_{rv} &= 0.173 \end{aligned}$$

$$\begin{aligned} I_{rv} &= 5.2E-02 \text{ mg/kg DW} * 7.5E-03 \text{ kg DW/day} * 0.173 \\ I_{rv} &= 6.7E-06 \text{ mg/d} \end{aligned}$$

**Table G-1.5. Contaminant Intake from Beef and Dairy Intake**

$I_i = A_i \cdot CR_i \cdot F_i$		
Parameter	Description	Values
$I_i$	Daily intake of contaminant from beef and dairy $i$ (mg/d)	
$A_i$	Concentration in beef and dairy $i$ , (mg/kg DW) for cadmium, (mg/kg WW) for all other contaminants	calculated (see Table E-3.14 for Beef, Table E-3.15 for dairy)
$CR_i$	Consumption rate of beef and dairy $i$ , (kg DW/d) for cadmium, (kg WW/d) for all other contaminants	varies
$F_i$	Fraction of animal tissue $i$ contaminated (unitless)	varies

**Central Tendency Calculations for Beef and Dairy***Arsenic (Carcinogen):*

Beef:  $A_i = 7.8E-04$  mg/kg WW  
 $CR_i = 9.8E-02$  kg WW/day  
 $F_i = 0.485$

$$I_i = 7.8E-04 \text{ mg/kg WW} * 9.8E-02 \text{ kg WW/day} * 0.485$$

$$I_i = 3.7E-05 \text{ mg/d}$$

Dairy:  $A_i = 3.1E-05$  mg/kg WW  
 $CR_i = 7.3E-01$  kg WW/day  
 $F_i = 0.254$

$$I_i = 3.1E-05 \text{ mg/kg WW} * 7.3E-01 \text{ kg WW/day} * 0.254$$

$$I_i = 5.6E-06 \text{ mg/d}$$

**Central Tendency Calculations for Beef and Dairy (cont)**

*Zinc (Non-carcinogen):*

Beef:  $A_i = 2.5E-04$  mg/kg WW  
 $Cr_i = 9.8E-02$  kg WW/day  
 $F_i = 0.485$

$$I_i = 2.5E-04 \text{ mg/kg WW} * 9.8E-02 \text{ kg WW/day} * 0.485$$
$$I_i = 1.2E-05 \text{ mg/d}$$

Dairy:  $A_i = 1.0E-04$  mg/kg WW  
 $Cr_i = 7.3E-01$  kg WW/day  
 $F_i = 0.254$

$$I_i = 1.0E-04 \text{ mg/kg WW} * 7.3E-01 \text{ kg WW/day} * 0.254$$
$$I_i = 1.9E-05 \text{ mg/d}$$

**Table G-1.6. Total Daily Intake for Non-groundwater Indirect Pathways**

<p><b>Adult Resident and Child of Adult Resident</b></p> $I = I_{soil}$		
<p><b>Home Gardener</b></p> $I = I_{soil} + I_{ev} + I_{ef} + I_{rv}$		
<p><b>Farmer and Child of Farmer</b></p> $I = I_{soil} + I_{ev} + I_{beef} + I_{dairy} + I_{ef} + I_{rv}$		
<p><b>Fisher</b></p> $I = I_{fish}$		
Parameter	Description	Values
I	Total daily intake of contaminant (mg/d)	
$I_{soil}$	Daily intake of contaminant from soil (mg/d)	calculated (see Table E-5.1)
$I_{ev}$	Daily intake of contaminant from exposed vegetables (mg/d)	calculated (see Table E-5.2)
$I_{ef}$	Daily intake of contaminant from exposed fruit (mg/d)	calculated (see Table E-5.3)
$I_{rv}$	Daily intake of contaminant from root vegetables (mg/d)	calculated (see Table E-5.4)
$I_{beef}, I_{dairy}$	Daily intake of contaminant from animal tissue (mg/d)	calculated (see Table E-5.5)
$I_{fish}$	Daily intake of contaminant from fish (mg/d)	calculated (see Table E-5.6)

**Central Tendency Calculations for Total Non-groundwater Indirect Intake***Arsenic (Carcinogen):*

$$I_{\text{soil}} = 1.6\text{E-}05 \text{ mg/d}$$

$$I_{\text{ev}} = 3.7\text{E-}05 \text{ mg/d}$$

$$I_{\text{beef}} = 3.7\text{E-}05 \text{ mg/d}$$

$$I_{\text{dairy}} = 5.6\text{E-}06 \text{ mg/d}$$

$$I_{\text{ef}} = 4.5\text{E-}05 \text{ mg/d}$$

$$I_{\text{rv}} = 3.4\text{E-}06 \text{ mg/d}$$

$$I = 1.6\text{E-}05 \text{ mg/d} + 3.7\text{E-}05 \text{ mg/d} + 3.7\text{E-}05 \text{ mg/d} + 5.6\text{E-}06 \text{ mg/d} + \\ 4.5\text{E-}05 \text{ mg/d} + 3.4\text{E-}06 \text{ mg/d}$$

$$I = 1.4\text{E-}04 \text{ mg/d}$$

*Zinc (Non-carcinogen):*

$$I_{\text{soil}} = 5.9\text{E-}05 \text{ mg/d}$$

$$I_{\text{ev}} = 8.9\text{E-}04 \text{ mg/d}$$

$$I_{\text{beef}} = 1.2\text{E-}05 \text{ mg/d}$$

$$I_{\text{dairy}} = 1.9\text{E-}05 \text{ mg/d}$$

$$I_{\text{ef}} = 1.1\text{E-}03 \text{ mg/d}$$

$$I_{\text{rv}} = 6.7\text{E-}06 \text{ mg/d}$$

$$I = 5.9\text{E-}05 \text{ mg/d} + 8.9\text{E-}04 \text{ mg/d} + 1.2\text{E-}05 \text{ mg/d} + 1.9\text{E-}05 \text{ mg/d} + \\ 1.1\text{E-}03 \text{ mg/d} + 6.7\text{E-}06 \text{ mg/d}$$

$$I = 2.0\text{E-}03 \text{ mg/d}$$

**Table G-1.7. Individual Cancer Risk: Carcinogens**

$\text{Cancer Risk} = \frac{I \cdot ED \cdot EF \cdot CSF}{BW \cdot AT \cdot 365}$		
Parameter	Description	Values
Cancer Risk	Individual lifetime cancer risk (unitless)	
I	Total daily intake of contaminant (mg/d)	calculated (see Tables E-5.1 - E-5.6)
ED	Exposure duration (yr)	varies
EF	Exposure frequency (day/yr)	350
BW	Body weight (kg)	adult: 70 child: varies
AT	Averaging time (yr)	70
365	Units conversion factor (d/yr)	
CSF	Oral cancer slope factor (per mg/kg/d)	chemical-specific

**Central Tendency Calculation for Risk from Non-groundwater Indirect Intake**

*Arsenic (Carcinogen):*

I = 1.4E-04 mg/d  
 ED = 10 yr  
 EF = 350 d/yr  
 CSF = 1.5 (mg/kg/d)<sup>-1</sup>  
 BW = 70 kg  
 AT = 70 yr

Cancer Risk = (1.4E-4 mg/d \* 10 yr \* 350 d/yr \* 1.5 (mg/kg/d)<sup>-1</sup>)/(70 kg \* 70 yr \* 365 d/yr)  
 Cancer Risk = 4E-07

Table G-1.8. Hazard Quotient: Noncarcinogens

$HQ = \frac{I}{BW \cdot RfD}$		
Parameter	Description	Values
HQ	Hazard quotient (unitless)	
I	Total daily intake of contaminant (mg/d)	calculated (see Tables E-5.1 - E-5.6)
BW	Body weight (kg)	adult: 70 child: varies
RfD	Reference Dose (mg/kg/d)	chemical-specific

**Central Tendency Calculation for the HQ for Non-groundwater Indirect Intake***Zinc (Non-carcinogen):*

$$I = 2.0E-03 \text{ mg/d}$$

$$BW = 70 \text{ kg}$$

$$RfD = 0.3 \text{ mg/kg/d}$$

$$HQ = (2.0E-03 \text{ mg/d}) / (70 \text{ kg} * 0.3 \text{ mg/kg/d})$$

$$HQ = 0.0001$$

Table G-2.1 Concentration in Air

$C_a = (C_{\text{vapor}} \cdot J_{\text{air,t}}) + (PM_{10} \cdot C_0 \cdot C_{\text{particulate}} \cdot 0.000001 \text{ kg/mg})$		
Parameter	Description	Values
$C_a$	Concentration in air ( $\mu\text{g}/\text{m}^3$ )	
$C_{\text{vapor}}$	Annual Average Vapor Air Concentration ( $(\mu\text{g}/\text{m}^3)/(\text{g}/\text{m}^2\text{-s})$ )	Modeled ISC3
$J_{\text{air,t}}$	Total contaminant flux to atmosphere ( $\text{g}/\text{m}^2\text{-s}$ )	Modeled (chemical-specific)
$PM_{10}$	Particulate matter (<10 micrometers) ( $\text{g}/\text{m}^2\text{-s}$ )	Modeled
$C_0$	Source constituent concentration ( $\text{mg}/\text{kg}$ )	chemical-specific
$C_{\text{particulate}}$	Annual average particulate air concentration ( $(\mu\text{g}/\text{m}^3)/(\text{g}/\text{m}^2\text{-s})$ )	Modeled ISC3

**Central Tendency Calculation for the Concentration in Air***Arsenic (Carcinogen):*

$$\begin{aligned} C_{\text{vapor}} &= 3.5\text{E}+6 \text{ } (\mu\text{g}/\text{m}^3)/(\text{g}/\text{m}^2\text{-s}) \\ J_{\text{air,t}} &= 0 \text{ g}/\text{m}^2\text{-s} \\ PM_{10} &= 3.63\text{E}-6 \text{ g}/\text{m}^2\text{-s} \\ C_0 &= 1.03 \text{ mg}/\text{kg} \\ C_{\text{particulate}} &= 2.64\text{E}+6 \text{ } (\mu\text{g}/\text{m}^3)/(\text{g}/\text{m}^2\text{-s}) \end{aligned}$$

$$\begin{aligned} C_a &= 3.63\text{E}-6 \text{ g}/\text{m}^2\text{-s} * 1.03 \text{ mg}/\text{kg} * 2.64\text{E}+6 \text{ } (\mu\text{g}/\text{m}^3)/(\text{g}/\text{m}^2\text{-s}) * 0.000001 \text{ kg}/\text{mg} \\ C_a &= 9.9\text{E}-6 \text{ } \mu\text{g}/\text{m}^3 \end{aligned}$$

*Zinc (Non-carcinogen):*

$$\begin{aligned} C_{\text{vapor}} &= 3.5\text{E}+6 \text{ } (\mu\text{g}/\text{m}^3)/(\text{g}/\text{m}^2\text{-s}) \\ J_{\text{air,t}} &= 0 \text{ g}/\text{m}^2\text{-s} \\ PM_{10} &= 3.63\text{E}-6 \text{ g}/\text{m}^2\text{-s} \\ C_0 &= 10 \text{ mg}/\text{kg} \\ C_{\text{particulate}} &= 2.64\text{E}+6 \text{ } (\mu\text{g}/\text{m}^3)/(\text{g}/\text{m}^2\text{-s}) \end{aligned}$$

$$\begin{aligned} C_a &= 3.63\text{E}-6 \text{ g}/\text{m}^2\text{-s} * 10 \text{ mg}/\text{kg} * 2.64\text{E}+6 \text{ } (\mu\text{g}/\text{m}^3)/(\text{g}/\text{m}^2\text{-s}) * 0.000001 \text{ kg}/\text{mg} \\ C_a &= 9.6\text{E}-5 \text{ } \mu\text{g}/\text{m}^3 \end{aligned}$$



**Table G-2.2. Inhalation Cancer Risk for Individual Chemicals from Carcinogenic Slope Factor: Carcinogens**

Parameter	Description	Values
$\text{Cancer Risk} = \text{ADI} \cdot \text{CSF}_{inh}$ $\text{ADI} = \frac{C_a \cdot \text{IR} \cdot \text{ET} \cdot \text{EF} \cdot \text{ED} \cdot 0.001 \text{ mg}/\mu\text{g}}{\text{BW} \cdot \text{AT} \cdot 365 \text{ day/yr}}$		
Cancer Risk	Individual lifetime cancer risk (unitless)	
ADI	Average daily intake via inhalation (mg/kg/day)	
C <sub>a</sub>	Concentration of contaminant in the air (μg/m <sup>3</sup> )	calculated (see Table E-6.1)
IR	Inhalation rate (m <sup>3</sup> /hr)	varies
ET	Exposure time (hr/day)	24
EF	Exposure frequency (day/yr)	350
ED	Exposure Duration (yr)	varies
BW	Body weight (kg)	Adult = 70 Child = varies
AT	Averaging time (yr)	70
CSF <sub>inh</sub>	Inhalation Carcinogenic slope Factor (per mg/kg/day)	chemical-specific

**Central Tendency Calculation for the Risk from Direct Inhalation**

*Arsenic (Carcinogen):*

$$C_a = 9.9\text{E-}06 \text{ } \mu\text{g}/\text{m}^3$$

$$\text{IR} = 6.7\text{E-}01 \text{ m}^3/\text{hr}$$

$$\text{ED} = 10 \text{ yr}$$

$$\text{BW} = 70 \text{ kg}$$

$$\text{CSF}_{inh} = 15.05 \text{ (mg/kg/d)}^{-1}$$

$$\text{ADI} = (9.9\text{E-}06 \text{ } \mu\text{g}/\text{m}^3 * 6.7\text{E-}01 \text{ m}^3/\text{hr} * 24 \text{ hr/d} * 350 \text{ d/yr} * 10 \text{ yr} * 0.001 \text{ mg}/\mu\text{g}) / (70 \text{ kg} * 70 \text{ yr} * 365 \text{ d/yr})$$

$$\text{ADI} = 3.1\text{E-}10 \text{ mg/kg/day}$$

$$\text{Cancer Risk} = 3.1\text{E-}10 \text{ mg/kg/day} * 15.05 \text{ (mg/kg/d)}^{-1}$$

$$\text{Cancer Risk} = 5\text{E-}09$$

**G-2.3. Inhalation Hazard Quotient for Individual Chemicals: Noncarcinogens**

$$HQ = \frac{C_a \cdot 0.001 \text{ mg}/\mu\text{g}}{RfC}$$

Parameter	Description	Values
HQ	Hazard quotient (unitless)	
$C_a$	Concentration in air ( $\mu\text{g}/\text{m}^3$ )	calculated (see Appendix E-6.1)
RfC	Reference concentration ( $\text{mg}/\text{m}^3$ )	chemical-specific

**Central Tendency Calculation for the HQ from Direct Inhalation**

Zinc (Non-carcinogen):

$$C_a = 9.6\text{E-}5 \text{ } \mu\text{g}/\text{m}^3$$

$$RfC = 9.0\text{E-}04 \text{ } \text{mg}/\text{m}^3$$

$$HQ = (9.6\text{E-}5 \text{ } \mu\text{g}/\text{m}^3 * 0.001 \text{ } \text{mg}/\mu\text{g}) / (9.0\text{E-}04 \text{ } \text{mg}/\text{m}^3)$$

$$HQ = 0.0001$$

**Table G-3.1. Contaminant Intake from Drinking Water Intake**

$I_{dw} = C_{dw} \cdot CR_{dw} \cdot F_{dw}$		
Parameter	Description	Values
$I_{dw}$	Daily intake of contaminant from drinking water (mg/d)	
$C_{dw}$	Concentration in tap water (mg/L)	calculated
$CR_{dw}$	Consumption rate of drinking water (L/d)	varies
$F_{dw}$	Fraction of drinking water contaminated (unitless)	varies

**Central Tendency Calculations for Tap Water Intake**

*Arsenic (Carcinogen):*

$$C_{dw} = 1.9E-04 \text{ mg/L}$$

$$CR_{dw} = 1.4 \text{ L/day}$$

$$F_{dw} = 1$$

$$I_{dw} = 1.9E-4 \text{ mg/L} * 1.4 \text{ L/day} * 1$$

$$I_{dw} = 2.6E-04 \text{ mg/d}$$

*Note: Example calculations for a non-carcinogen is not provided because all were screened out of the groundwater analysis.*

**Table G-3.2. Individual Cancer Risk from Tap Water Ingestion: Carcinogens**

$\text{Cancer Risk} = \frac{I_{dw} \cdot ED \cdot EF \cdot CSF}{BW \cdot AT \cdot 365}$		
Parameter	Description	Values
Cancer Risk	Individual lifetime cancer risk (unitless)	
$I_{dw}$	Total daily intake of contaminant in drinking water (mg/d)	calculated (see Tables E-5.1 - E-5.6)
ED	Exposure duration (yr)	varies
EF	Exposure frequency (day/yr)	350
BW	Body weight (kg)	adult: 70 child: varies
AT	Averaging time (yr)	70
365	Units conversion factor (d/yr)	
CSF	Oral cancer slope factor (per mg/kg/d)	chemical-specific

**Central Tendency Calculation for the Risk from Tap Water Ingestion***Arsenic (Carcinogen):*

$I_{dw} = 2.6\text{E-}04$  mg/d  
 ED = 10 yr  
 EF = 350 d/yr  
 CSF = 1.5 (mg/kg/d)<sup>-1</sup>  
 BW = 70 kg  
 AT = 70 yr

Cancer Risk = (2.6E-4 mg/d \* 10 yr \* 350 d/yr \* 1.5 (mg/kg/d)<sup>-1</sup>)/(70 kg \* 70 yr \* 365 d/yr)  
 Cancer Risk = 8.0E-07

**Table G-3.3. Dose Absorbed per Unit Area per Shower Event**

Adult Exposure Scenarios		
$DA_{event} = C_{water} \times K_p^w \left[ \frac{t_{event}}{1+B} + 2\tau \left( \frac{1+3B}{1+B} \right) \right] \times 0.001 L/cm^3$		
Parameter	Definition	Value
$DA_{event}$	Dose absorbed per unit area per event (mg/cm <sup>2</sup> )	
$C_{water}$	Water concentration (mg/L)	Calculated
$K_p^w$	Skin permeability constant in water (cm/h)	chemical-specific
$t_{event}$	Duration of event (h)	0.167
$\tau$	Lag time (h)	chemical-specific
B	Bunge constant (unitless)	chemical-specific

**Central Tendency Calculation for Dose Absorbed per Unit Area per Event***Arsenic (Carcinogen)*

$$C_{water} = 1.9E-04 \text{ mg/L}$$

$$K_p^w = 1.0E-03 \text{ cm/h}$$

$$t_{event} = 0.167 \text{ h}$$

$\tau$  = Not applicable for metals

B = Not applicable for metals

$$Da_{event} = 1.9E-04 \text{ mg/L} \times 1.0E-03 \text{ cm/h} \times 0.167 \text{ h} \times 0.001 \text{ L/cm}^3$$

$$Da_{event} = 3.1E-11 \text{ (mg/cm}^2\text{)}$$

Table G-3.4. Cancer Risk for Dermal Exposure to Tap Water

All Exposure Scenarios		
$CancerRisk = \frac{DA_{event} \times EF \times EF_{event} \times ED \times SA_{skin} \times Adjusted\ CSF}{BW \times AT \times 365days/yr}$		
Parameter	Definition	Value
DA <sub>event</sub>	Dose absorbed per unit area per event (mg/cm <sup>2</sup> /event)	
EF	Exposure frequency (days/yr)	350
EF <sub>event</sub>	Event exposure frequency (showers per day) (event/day)	1
ED	Exposure duration (yr)	varies
SA <sub>skin</sub>	Surface area of skin (cm <sup>2</sup> )	20,000
Adjusted CSF <sup>a</sup>	Cancer slope factor (mg/kg/day) <sup>-1</sup>	chemical-specific
AT	Averaging time (yrs)	70
BW	Body weight (kg)	Adult = 70

<sup>a</sup> The Adjusted CSF is calculated by dividing the oral CSF by the oral absorption efficiency for the appropriate chemical type. The following oral absorption efficiencies were used in this analysis:

- 80% for Volatile organic chemicals
- 50% for Semi-volatile organic chemicals
- 20% for Metals

**Central Tendency Calculation for Dermal Exposure to Tap Water***Arsenic (Carcinogen)*

$$\text{Adjusted CSF} = (1.5 \text{ (mg/kg/day)}^{-1}) / (0.2) = 7.5 \text{ (mg/kg/day)}^{-1}$$

$$DA_{\text{event}} = 3.1\text{E-}11$$

$$EF = 350 \text{ days/yr}$$

$$EF_{\text{event}} = 1 \text{ event/day}$$

$$ED = 10 \text{ yrs}$$

$$SA_{\text{skin}} = 20,000\text{cm}^2$$

$$\text{Adjusted CSF} = 7.5 \text{ (mg/kg/day)}^{-1}$$

$$AT = 70 \text{ yrs}$$

$$BW = 70 \text{ kg}$$

Cancer Risk =

$$(3.1\text{E-}11 \text{ mg/cm}^2/\text{event} * 350 \text{ d/y} * 1 \text{ event/d} * 10 \text{ y} * 20,000 \text{ cm}^2 * 7.5 \text{ (mg/kg/d)}^{-1}) / (70\text{y} * 70\text{kg} * 365 \text{ d/y})$$

Cancer Risk = 9E-09

## **Appendix H**

### **Results**



## **Appendix H.1**

# **Chlorinated Aliphatics Wastewater, Tank Scenario Exposure Point Concentrations and Risk Results**

## **Appendix H.1.1**

### **Exposure Point Concentrations**

**Table H.1-1a. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank), Farmer**

6/25/99

Constituent	CAS	TEF	Soil Concentration (mg/kg)	Exposed Vegetable Concentration (mg/kg-DW)	Exposed Fruit Concentration (mg/kg-DW)	Root Vegetable Concentration (mg/kg-WW)
TCDD, 2,3,7,8-	1746-01-6	1	1.6E-10	2.6E-11	1.3E-10	3.6E-13
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	2.1E-16	4.3E-15	2.3E-14	6.6E-19
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	8.7E-11	9.3E-11	4.9E-10	1.1E-13
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	1.1E-11	9.1E-12	4.8E-11	6.0E-15
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	1.5E-13	4.6E-13	2.5E-12	8.4E-17
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	2.0E-11	2.1E-11	1.1E-10	1.9E-14
TCDF, 2,3,7,8-	51207-31-9	0.1	1.5E-10	3.1E-11	1.6E-10	1.3E-13
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	1.9E-10	2.0E-10	1.0E-09	1.7E-13
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	8.0E-10	8.9E-10	4.7E-09	5.8E-13
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	4.9E-10	1.8E-10	9.2E-10	3.6E-13
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	7.2E-11	7.7E-11	4.1E-10	9.3E-14
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	2.8E-10	1.0E-10	5.4E-10	2.1E-13
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	1.9E-10	2.0E-10	1.0E-09	1.7E-13
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	4.8E-09	1.8E-09	9.2E-09	3.6E-12
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	NA	NA	NA	NA
TEQ			7.3E-09	3.6E-09	1.9E-08	5.8E-12

Dioxin congener conc. expressed as TEQs

High End Parameters:

Waste concentration and exposure duration

**Table H.1-1a. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank), Farmer**

6/25/99

Constituent	CAS	TEF	Beef Concentration from Forage (mg/kg-WW)	Beef Concentration from Grain (mg/kg-WW)	Beef Concentration from Silage (mg/kg-WW)	Beef Concentration from Soil (mg/kg-WW)	Beef Concentration (mg/kg-WW)
TCDD, 2,3,7,8-	1746-01-6	1	1.5E-09	3.1E-14	1.6E-13	5.4E-12	1.5E-09
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	3.0E-14	1.3E-21	6.8E-21	8.6E-19	3.0E-14
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	2.5E-09	2.9E-15	1.5E-14	1.3E-12	2.5E-09
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	4.8E-11	2.2E-17	1.2E-16	3.3E-14	4.8E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	2.0E-12	1.1E-19	6.0E-19	3.8E-16	2.0E-12
HxCDF, 1,2,3,4,7,8-	39227-28-6	0.1	5.6E-10	3.4E-16	1.8E-15	3.0E-13	5.6E-10
TCDF, 2,3,7,8-	51207-31-9	0.1	2.7E-10	4.5E-15	2.4E-14	7.3E-13	2.7E-10
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	1.7E-09	9.3E-16	4.9E-15	9.4E-13	1.7E-09
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	3.9E-08	7.3E-14	3.9E-13	2.0E-11	3.9E-08
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	4.6E-09	1.6E-14	8.6E-14	7.4E-12	4.6E-09
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	2.0E-09	2.4E-15	1.3E-14	1.1E-12	2.0E-09
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	2.7E-09	9.4E-15	5.0E-14	4.3E-12	2.7E-09
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	1.0E-09	5.6E-16	3.0E-15	5.6E-13	1.0E-09
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	6.1E-08	2.1E-13	1.1E-12	9.7E-11	6.1E-08
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	NA	NA	NA	NA	NA
TEQ			1.2E-07	3.5E-13	1.9E-12	1.4E-10	1.2E-07

Dioxin congener conc. expressed as TEQs

High End Parameters:

Waste concentration and exposure duration

Table H.1-1a. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank), Farmer

6/25/99

Constituent	CAS	TEF	Dairy Concentration from Forage (mg/kg-WW)	Dairy Concentration from Grain (mg/kg-WW)	Dairy Concentration from Silage (mg/kg-WW)	Dairy Concentration from Soil (mg/kg-WW)	Dairy Concentration (mg/kg-WW)	Air Concentration (µg/m³)
TCDD, 2,3,7,8-	1746-01-6	1	3.3E-10	2.8E-14	3.8E-14	6.2E-13	3.3E-10	4.9E-11
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	5.7E-15	1.0E-21	1.4E-21	8.6E-20	5.7E-15	6.0E-17
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	7.4E-10	3.7E-15	5.0E-15	2.1E-13	7.4E-10	2.5E-11
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	1.2E-11	2.4E-17	3.2E-17	4.4E-15	1.2E-11	3.1E-12
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	6.1E-13	1.5E-19	2.0E-19	6.1E-17	6.1E-13	4.3E-14
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	1.7E-10	4.4E-16	6.0E-16	4.8E-14	1.7E-10	5.6E-12
TCDF, 2,3,7,8-	51207-31-9	0.1	1.2E-10	8.6E-15	1.2E-14	1.8E-13	1.2E-10	4.5E-11
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	7.8E-10	1.8E-15	2.4E-15	2.2E-13	7.8E-10	5.4E-11
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	1.1E-08	8.4E-14	1.1E-13	2.9E-12	1.1E-08	2.3E-10
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	1.4E-09	2.1E-14	2.8E-14	1.2E-12	1.4E-09	1.4E-10
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	5.1E-10	2.5E-15	3.4E-15	1.4E-13	5.1E-10	2.1E-11
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	6.7E-10	1.0E-14	1.4E-14	5.7E-13	6.7E-10	8.1E-11
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	2.6E-10	5.9E-16	8.1E-16	7.5E-14	2.6E-10	5.4E-11
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	1.6E-08	2.4E-13	3.3E-13	1.4E-11	1.6E-08	1.4E-09
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	NA	NA	NA	NA	NA	NA
TEQ			3.2E-08	4.0E-13	5.4E-13	2.0E-11	3.2E-08	2.1E-09

Dioxin congener conc. expressed as TEQs

High End Parameters:

Waste concentration and exposure duration

**Table H.1-1b. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank), Child of Farmer**

6/25/99

Constituent	CAS	TEF	Soil Concentration (mg/kg)	Exposed Vegetable Concentration (mg/kg-DW)	Exposed Fruit Concentration (mg/kg-DW)	Root Vegetable Concentration (mg/kg-WW)
TCDD, 2,3,7,8-	1746-01-6	1	3.0E-10	6.5E-11	3.4E-10	9.1E-13
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	4.1E-16	1.1E-14	5.8E-14	1.7E-18
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	1.7E-10	2.4E-10	1.2E-09	2.8E-13
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	2.1E-11	2.3E-11	1.2E-10	1.5E-14
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	2.9E-13	1.2E-12	6.2E-12	2.1E-16
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	3.8E-11	5.3E-11	2.8E-10	4.7E-14
TCDF, 2,3,7,8-	51207-31-9	0.1	2.8E-10	7.9E-11	4.1E-10	3.2E-13
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	3.5E-10	4.9E-10	2.6E-09	4.2E-13
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	1.5E-09	2.3E-09	1.2E-08	1.5E-12
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	9.4E-10	4.4E-10	2.3E-09	9.2E-13
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	1.4E-10	2.0E-10	1.0E-09	2.4E-13
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	5.4E-10	2.6E-10	1.4E-09	5.3E-13
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	3.5E-10	4.9E-10	2.6E-09	4.2E-13
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	9.2E-09	4.4E-09	2.3E-08	9.0E-12
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	NA	NA	NA	NA
TEQ			1.4E-08	9.0E-09	4.8E-08	1.5E-11

Dioxin congener conc. expressed as TEQs

High End Parameters:

Waste concentration and waste quantity

**Table H.1-1b. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank), Child of Farmer**

6/25/99

Constituent	CAS	TEF	Beef Concentration from Forage (mg/kg-WW)	Beef Concentration from Grain (mg/kg-WW)	Beef Concentration from Silage (mg/kg-WW)	Beef Concentration from Soil (mg/kg-WW)	Beef Concentration (mg/kg-WW)
TCDD, 2,3,7,8-	1746-01-6	1	3.9E-09	7.8E-14	4.1E-13	1.4E-11	3.9E-09
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	7.7E-14	3.3E-21	1.7E-20	2.2E-18	7.7E-14
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	6.2E-09	7.2E-15	3.8E-14	3.3E-12	6.2E-09
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	1.2E-10	5.6E-17	3.0E-16	8.4E-14	1.2E-10
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	5.2E-12	2.9E-19	1.5E-18	9.6E-16	5.2E-12
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	1.4E-09	8.6E-16	4.6E-15	7.5E-13	1.4E-09
TCDF, 2,3,7,8-	51207-31-9	0.1	6.7E-10	1.1E-14	6.1E-14	1.9E-12	6.8E-10
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	4.3E-09	2.3E-15	1.2E-14	2.3E-12	4.3E-09
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	9.9E-08	1.9E-13	9.9E-13	5.1E-11	9.9E-08
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	1.2E-08	4.1E-14	2.2E-13	1.9E-11	1.2E-08
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	5.1E-09	6.0E-15	3.2E-14	2.7E-12	5.1E-09
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	6.8E-09	2.4E-14	1.3E-13	1.1E-11	6.8E-09
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	2.6E-09	1.4E-15	7.3E-15	1.4E-12	2.6E-09
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	1.5E-07	5.4E-13	2.9E-12	2.4E-10	1.5E-07
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	NA	NA	NA	NA	NA
TEQ			3.0E-07	8.9E-13	4.8E-12	3.5E-10	3.0E-07

Dioxin congener conc. expressed as TEQs

High End Parameters:

Waste concentration and waste quantity

**Table H.1-1b. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank), Child of Farmer**

6/25/99

Constituent	CAS	TEF	Dairy Concentration from Forage (mg/kg-WW)	Dairy Concentration from Grain (mg/kg-WW)	Dairy Concentration from Silage (mg/kg-WW)	Dairy Concentration from Soil (mg/kg-WW)	Dairy Concentration (mg/kg-WW)	Air Concentration (µg/m³)
TCDD, 2,3,7,8-	1746-01-6	1	8.3E-10	7.1E-14	9.7E-14	1.6E-12	8.3E-10	1.2E-10
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	1.5E-14	2.6E-21	3.6E-21	2.2E-19	1.5E-14	1.5E-16
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	1.9E-09	9.2E-15	1.3E-14	5.3E-13	1.9E-09	6.3E-11
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	3.0E-11	6.0E-17	8.1E-17	1.1E-14	3.0E-11	7.9E-12
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	1.5E-12	3.7E-19	5.0E-19	1.5E-16	1.5E-12	1.1E-13
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	4.2E-10	1.1E-15	1.5E-15	1.2E-13	4.2E-10	1.4E-11
TCDF, 2,3,7,8-	51207-31-9	0.1	3.0E-10	2.2E-14	3.0E-14	4.5E-13	3.0E-10	1.1E-10
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	1.9E-09	4.4E-15	6.0E-15	5.6E-13	1.9E-09	1.3E-10
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	2.7E-08	2.1E-13	2.9E-13	7.3E-12	2.7E-08	5.9E-10
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	3.5E-09	5.2E-14	7.1E-14	3.0E-12	3.5E-09	3.5E-10
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	1.3E-09	6.4E-15	8.7E-15	3.6E-13	1.3E-09	5.2E-11
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	1.7E-09	2.5E-14	3.4E-14	1.4E-12	1.7E-09	2.1E-10
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	6.4E-10	1.5E-15	2.0E-15	1.9E-13	6.4E-10	1.3E-10
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	4.1E-08	6.0E-13	8.2E-13	3.4E-11	4.1E-08	3.5E-09
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	NA	NA	NA	NA	NA	NA
TEQ			8.0E-08	1.0E-12	1.4E-12	5.0E-11	8.0E-08	5.3E-09

Dioxin congener conc. expressed as TEQs

High End Parameters:

Waste concentration and waste quantity



**Table H.1-2. Central Tendency Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank)**

6/25/99

Constituent	CAS	TEF	Soil Concentration <sup>a</sup> (mg/kg)	Soil Concentration <sup>b</sup> (mg/kg)	Exposed Vegetable Concentration (mg/kg)	Exposed Fruit Concentration (mg/kg)	Root Vegetable Concentration (mg/kg)
TCDD, 2,3,7,8-	1746-01-6	1	NA	NA	NA	NA	NA
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	1.6E-16	2.1E-16	4.3E-15	2.3E-14	6.6E-19
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	NA	NA	NA	NA	NA
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	2.9E-12	3.9E-12	3.2E-12	1.7E-11	2.1E-15
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	1.1E-13	1.5E-13	4.6E-13	2.5E-12	8.4E-17
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	NA	NA	NA	NA	NA
TCDF, 2,3,7,8-	51207-31-9	0.1	NA	NA	NA	NA	NA
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	8.4E-11	1.1E-10	1.2E-10	6.2E-10	1.0E-13
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	NA	NA	NA	NA	NA
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	8.6E-11	1.1E-10	4.1E-11	2.2E-10	8.4E-14
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	NA	NA	NA	NA	NA
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	6.0E-11	7.9E-11	2.9E-11	1.5E-10	5.9E-14
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	1.4E-10	1.9E-10	2.0E-10	1.0E-09	1.7E-13
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	4.2E-10	5.6E-10	2.0E-10	1.1E-09	4.1E-13
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	3.8E-11	5.0E-11	1.8E-11	9.5E-11	3.7E-14
TEQ			8.3E-10	1.1E-09	6.1E-10	3.2E-09	8.6E-13

Dioxin congener conc. expressed as TEQs

a - Conc. in resident lot (Child of Farmer)

b - Conc. in agricultural field (Farmer)

**Table H.1-2. Central Tendency Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank)**

6/25/99

Constituent	CAS	TEF	Beef Concentration from Forage (mg/kg)	Beef Concentration from Grain (mg/kg)	Beef Concentration from Silage (mg/kg)	Beef Concentration from Soil (mg/kg)	Beef Concentration (mg/kg)
TCDD, 2,3,7,8-	1746-01-6	1	NA	NA	NA	NA	NA
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	3.0E-14	1.3E-21	6.8E-21	8.6E-19	3.0E-14
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	NA	NA	NA	NA	NA
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	1.7E-11	7.8E-18	4.1E-17	1.2E-14	1.7E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	2.0E-12	1.1E-19	6.0E-19	3.8E-16	2.0E-12
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	NA	NA	NA	NA	NA
TCDF, 2,3,7,8-	51207-31-9	0.1	NA	NA	NA	NA	NA
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	1.0E-09	5.5E-16	2.9E-15	5.5E-13	1.0E-09
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	NA	NA	NA	NA	NA
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	1.1E-09	3.8E-15	2.0E-14	1.7E-12	1.1E-09
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	NA	NA	NA	NA	NA
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	7.5E-10	2.6E-15	1.4E-14	1.2E-12	7.5E-10
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	1.0E-09	5.5E-16	3.0E-15	5.6E-13	1.0E-09
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	7.0E-09	2.5E-14	1.3E-13	1.1E-11	7.1E-09
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	4.7E-10	1.7E-15	8.8E-15	7.5E-13	4.7E-10
TEQ			1.1E-08	3.4E-14	1.8E-13	1.6E-11	1.1E-08

Dioxin congener conc. expressed as TEQs

a - Conc. in resident lot (Child of Farmer)

b - Conc. in agricultural field (Farmer)

**Table H.1-2. Central Tendency Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (Tank)**

6/25/99

Constituent	CAS	TEF	Dairy Concentration from Forage (mg/kg)	Dairy Concentration from Grain (mg/kg)	Dairy Concentration from Silage (mg/kg)	Dairy Concentration from Soil (mg/kg)	Dairy Concentration (mg/kg)	Air Concentration (µg/m <sup>3</sup> )
TCDD, 2,3,7,8-	1746-01-6	1	NA	NA	NA	NA	NA	NA
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	5.7E-15	1.0E-21	1.4E-21	8.6E-20	5.7E-15	6.0E-17
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	NA	NA	NA	NA	NA	NA
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	4.2E-12	8.3E-18	1.1E-17	1.6E-15	4.2E-12	1.1E-12
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	6.1E-13	1.4E-19	2.0E-19	6.1E-17	6.1E-13	4.3E-14
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	NA	NA	NA	NA	NA	NA
TCDF, 2,3,7,8-	51207-31-9	0.1	NA	NA	NA	NA	NA	NA
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	4.6E-10	1.1E-15	1.4E-15	1.3E-13	4.6E-10	3.2E-11
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	NA	NA	NA	NA	NA	NA
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	3.2E-10	4.8E-15	6.6E-15	2.7E-13	3.2E-10	3.2E-11
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	NA	NA	NA	NA	NA	NA
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	1.9E-10	2.8E-15	3.8E-15	1.6E-13	1.9E-10	2.3E-11
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	2.6E-10	5.9E-16	8.1E-16	7.5E-14	2.6E-10	5.4E-11
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	1.9E-09	2.7E-14	3.7E-14	1.6E-12	1.9E-09	1.6E-10
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	1.4E-10	2.1E-15	2.9E-15	1.2E-13	1.4E-10	1.4E-11
TEQ			3.2E-09	3.9E-14	5.3E-14	2.3E-12	3.2E-09	3.2E-10

Dioxin congener conc. expressed as TEQs

a - Conc. in resident lot (Child of Farmer)

b - Conc. in agricultural field (Farmer)

## **Appendix H.1.2**

### **Non-Groundwater Pathway Risk Results**

**Table H.1.3a. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
Central Tendency	<0.0001	<0.0001	3.E-17	4.E-19	<0.0001	8.E-18	2.E-17	<0.0001	2.E-20	<0.0001	9.E-16	8.E-15	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																	
Exposure Duration	<0.0001	<0.0001	9.E-17	1.E-18	<0.0001	3.E-17	7.E-17	<0.0001	8.E-20	<0.0001	3.E-15	3.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	9.E-17	4.E-19	<0.0001	8.E-18	2.E-17	<0.0001	6.E-20	<0.0001	2.E-15	3.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	3.E-17	4.E-19	<0.0001	9.E-18	3.E-17	<0.0001	3.E-20	<0.0001	7.E-15	1.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	2.E-16	2.E-18	<0.0001	5.E-17	1.E-16	<0.0001	1.E-19	<0.0001	4.E-15	5.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	6.E-17	9.E-19	<0.0001	2.E-17	5.E-17	<0.0001	3.E-20	<0.0001	2.E-15	2.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																	
Exposure Duration/Waste Concentration	<0.0001	<0.0001	3.E-16	1.E-18	<0.0001	3.E-17	7.E-17	<0.0001	2.E-19	<0.0001	8.E-15	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	1.E-16	1.E-18	<0.0001	3.E-17	9.E-17	<0.0001	1.E-19	<0.0001	2.E-14	4.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	5.E-16	7.E-18	<0.0001	2.E-16	4.E-16	<0.0001	5.E-19	<0.0001	1.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	6.E-17	2.E-16	<0.0001	1.E-19	<0.0001	7.E-15	7.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	1.E-16	5.E-19	<0.0001	1.E-17	3.E-17	<0.0001	8.E-20	<0.0001	2.E-14	4.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	6.E-16	2.E-18	<0.0001	5.E-17	1.E-16	<0.0001	4.E-19	<0.0001	1.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	2.E-16	1.E-18	<0.0001	2.E-17	5.E-17	<0.0001	9.E-20	<0.0001	6.E-15	8.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	6.E-17	2.E-16	<0.0001	2.E-19	<0.0001	3.E-14	7.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	7.E-17	1.E-18	<0.0001	2.E-17	6.E-17	<0.0001	4.E-20	<0.0001	2.E-14	3.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	3.E-16	5.E-18	<0.0001	1.E-16	3.E-16	<0.0001	2.E-19	<0.0001	9.E-15	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.3a. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chloroethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	<0.0001	3.E-19	5.E-17	<0.0001	<0.0001	4.E-15	1.E-16	<0.0001	6.E-12	1.E-16	<0.0001	6.E-18	<0.0001	<0.0001	4.E-16	<0.0001
<b>Single High End Parameter</b>																
Exposure Duration	<0.0001	1.E-18	2.E-16	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	2.E-11	5.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Waste Concentration	<0.0001	1.E-18	2.E-16	<0.0001	<0.0001	2.E-14	1.E-16	<0.0001	6.E-12	2.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Meteorological Location	<0.0001	4.E-19	6.E-17	<0.0001	<0.0001	4.E-15	1.E-15	<0.0001	8.E-12	2.E-16	<0.0001	7.E-18	<0.0001	<0.0001	4.E-16	<0.0001
Distance to Receptor	<0.0001	2.E-18	3.E-16	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	4.E-11	9.E-16	<0.0001	4.E-17	<0.0001	<0.0001	2.E-15	<0.0001
Waste Quantity	<0.0001	8.E-19	1.E-16	<0.0001	<0.0001	9.E-15	3.E-16	<0.0001	2.E-11	4.E-16	<0.0001	1.E-17	<0.0001	<0.0001	9.E-16	<0.0001
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	<0.0001	4.E-18	5.E-16	<0.0001	<0.0001	5.E-14	5.E-16	<0.0001	2.E-11	5.E-16	<0.0001	5.E-17	<0.0001	<0.0001	4.E-15	<0.0001
Exposure Duration/Met Location	<0.0001	1.E-18	2.E-16	<0.0001	<0.0001	1.E-14	4.E-15	<0.0001	3.E-11	6.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	6.E-18	1.E-15	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-10	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	8.E-15	<0.0001
Exposure Duration/Waste Quantity	<0.0001	3.E-18	4.E-16	<0.0001	<0.0001	3.E-14	9.E-16	<0.0001	5.E-11	1.E-15	<0.0001	5.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Waste Concentration/Met Location	<0.0001	1.E-18	2.E-16	<0.0001	<0.0001	2.E-14	2.E-15	<0.0001	8.E-12	2.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	7.E-18	9.E-16	<0.0001	<0.0001	1.E-13	6.E-16	<0.0001	4.E-11	9.E-16	<0.0001	9.E-17	<0.0001	<0.0001	7.E-15	<0.0001
Waste Concentration/Waste Quantity	<0.0001	3.E-18	3.E-16	<0.0001	<0.0001	4.E-14	4.E-16	<0.0001	2.E-11	4.E-16	<0.0001	3.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Met Location/Distance to Receptor	<0.0001	2.E-18	4.E-16	<0.0001	<0.0001	3.E-14	5.E-15	<0.0001	5.E-11	1.E-15	<0.0001	4.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Met Location/Waste Quantity	<0.0001	9.E-19	1.E-16	<0.0001	<0.0001	1.E-14	3.E-15	<0.0001	2.E-11	5.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	4.E-18	6.E-16	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	9.E-11	2.E-15	<0.0001	8.E-17	<0.0001	<0.0001	5.E-15	<0.0001

**Table H.1.3a. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6,7, 8,-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2, 3,4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8	HpCDF,1, 2,3,4,6,7,8	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8, 9-	TEQ
Central Tendency	NA	2.E-18	NA	4.E-14	2.E-15	NA	NA	1.E-12	NA	1.E-12	NA	8.E-13	2.E-12	6.E-12	5.E-13	1.E-11
<b>Single High End Parameter</b>																
Exposure Duration	NA	7.E-18	NA	1.E-13	5.E-15	NA	NA	4.E-12	NA	4.E-12	NA	3.E-12	6.E-12	2.E-11	2.E-12	4.E-11
Waste Concentration	2.E-12	2.E-18	9.E-13	1.E-13	2.E-15	2.E-13	2.E-12	2.E-12	8.E-12	5.E-12	7.E-13	3.E-12	2.E-12	5.E-11	NA	8.E-11
Meteorological Location	NA	2.E-17	NA	3.E-13	1.E-14	NA	NA	9.E-12	NA	1.E-11	NA	6.E-12	1.E-11	4.E-11	4.E-12	9.E-11
Distance to Receptor	NA	1.E-17	NA	2.E-13	7.E-15	NA	NA	5.E-12	NA	5.E-12	NA	4.E-12	9.E-12	3.E-11	2.E-12	5.E-11
Waste Quantity	NA	6.E-18	NA	1.E-13	4.E-15	NA	NA	3.E-12	NA	3.E-12	NA	2.E-12	5.E-12	1.E-11	1.E-12	3.E-11
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	5.E-12	7.E-18	3.E-12	4.E-13	5.E-15	7.E-13	5.E-12	6.E-12	3.E-11	2.E-11	2.E-12	1.E-11	6.E-12	2.E-10	NA	3.E-10
Exposure Duration/Met Location	NA	6.E-17	NA	1.E-12	5.E-14	NA	NA	3.E-11	NA	3.E-11	NA	2.E-11	5.E-11	1.E-10	1.E-11	3.E-10
Exposure Duration/Distance to Receptor	NA	3.E-17	NA	6.E-13	2.E-14	NA	NA	2.E-11	NA	2.E-11	NA	1.E-11	3.E-11	9.E-11	8.E-12	2.E-10
Exposure Duration/Waste Quantity	NA	2.E-17	NA	3.E-13	1.E-14	NA	NA	1.E-11	NA	1.E-11	NA	7.E-12	2.E-11	5.E-11	4.E-12	1.E-10
Waste Concentration/Met Location	1.E-11	2.E-17	7.E-12	1.E-12	1.E-14	2.E-12	9.E-12	1.E-11	6.E-11	4.E-11	6.E-12	2.E-11	1.E-11	4.E-10	NA	6.E-10
Waste Concentration/Distance to Receptor	7.E-12	1.E-17	4.E-12	5.E-13	7.E-15	9.E-13	7.E-12	9.E-12	4.E-11	2.E-11	3.E-12	1.E-11	9.E-12	2.E-10	NA	3.E-10
Waste Concentration/Waste Quantity	4.E-12	6.E-18	2.E-12	3.E-13	4.E-15	5.E-13	4.E-12	5.E-12	2.E-11	1.E-11	2.E-12	7.E-12	5.E-12	1.E-10	NA	2.E-10
Met Location/Distance to Receptor	NA	8.E-17	NA	1.E-12	6.E-14	NA	NA	4.E-11	NA	4.E-11	NA	3.E-11	6.E-11	2.E-10	2.E-11	4.E-10
Met Location/Waste Quantity	NA	5.E-17	NA	9.E-13	3.E-14	NA	NA	2.E-11	NA	2.E-11	NA	2.E-11	4.E-11	1.E-10	1.E-11	2.E-10
Distance to Receptor/Waste Quantity	NA	2.E-17	NA	4.E-13	2.E-14	NA	NA	1.E-11	NA	1.E-11	NA	8.E-12	2.E-11	6.E-11	5.E-12	1.E-10

**Table H.1.3b. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Gardener**

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachloroethanol*	Trichloroethanol, 2,4,6-	Cresol, o-	Trichloroethanol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol	Cresol, p-
<b>Central Tendency</b>	<0.0001	<0.0001	6.E-15	1.E-16	<0.0001	8.E-16	3.E-15	<0.0001	3.E-18	<0.0001	5.E-13	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																		
Exposure Duration	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	2.E-15	7.E-15	<0.0001	6.E-18	<0.0001	8.E-13	1.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake	<0.0001	<0.0001	6.E-15	2.E-16	<0.0001	8.E-16	3.E-15	<0.0001	4.E-18	<0.0001	5.E-13	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake	<0.0001	<0.0001	2.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	2.E-14	2.E-16	<0.0001	8.E-16	3.E-15	<0.0001	1.E-17	<0.0001	1.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	7.E-15	2.E-16	<0.0001	9.E-16	3.E-15	<0.0001	4.E-18	<0.0001	5.E-13	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	4.E-14	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-12	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	1.E-14	4.E-16	<0.0001	2.E-15	7.E-15	<0.0001	5.E-18	<0.0001	1.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																		
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-12	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Fruit Intake	<0.0001	<0.0001	6.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	3.E-17	<0.0001	6.E-12	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	7.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	3.E-17	<0.0001	5.E-12	9.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	6.E-14	<0.0001	7.E-17	<0.0001	1.E-11	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-12	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	2.E-15	7.E-15	<0.0001	7.E-18	<0.0001	8.E-13	1.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	2.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	2.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	5.E-14	4.E-16	<0.0001	2.E-15	7.E-15	<0.0001	2.E-17	<0.0001	2.E-12	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Met Location	<0.0001	<0.0001	1.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	7.E-18	<0.0001	8.E-13	1.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	4.E-17	<0.0001	5.E-12	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Quantity	<0.0001	<0.0001	3.E-14	9.E-16	<0.0001	4.E-15	2.E-14	<0.0001	1.E-17	<0.0001	2.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	2.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	2.E-14	2.E-16	<0.0001	9.E-16	3.E-15	<0.0001	1.E-17	<0.0001	1.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Met Location	<0.0001	<0.0001	7.E-15	2.E-16	<0.0001	9.E-16	4.E-15	<0.0001	4.E-18	<0.0001	5.E-13	8.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	4.E-14	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-12	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Quantity	<0.0001	<0.0001	1.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	5.E-18	<0.0001	1.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Concentration	<0.0001	<0.0001	6.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	3.E-17	<0.0001	5.E-12	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Met Location	<0.0001	<0.0001	2.E-14	4.E-16	<0.0001	2.E-15	9.E-15	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	2.E-15	<0.0001	1.E-14	5.E-14	<0.0001	7.E-17	<0.0001	1.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Quantity	<0.0001	<0.0001	4.E-14	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-12	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	2.E-14	2.E-16	<0.0001	1.E-15	3.E-15	<0.0001	1.E-17	<0.0001	1.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	1.E-13	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	6.E-17	<0.0001	9.E-12	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	5.E-14	4.E-16	<0.0001	2.E-15	7.E-15	<0.0001	1.E-17	<0.0001	4.E-12	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-12	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	1.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	5.E-18	<0.0001	1.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	7.E-12	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001



**Table H.1.3b. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Gardener**

High End Parameter(s)	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chloroethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
<b>Central Tendency</b>	1.E-16	2.E-14	<0.0001	<0.0001	1.E-12	3.E-12	<0.0001	3.E-11	2.E-14	<0.0001	9.E-16	<0.0001	<0.0001	5.E-14	<0.0001
<b>Single High End Parameter</b>															
Exposure Duration	3.E-16	5.E-14	<0.0001	<0.0001	5.E-12	1.E-11	<0.0001	1.E-10	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Exposed Veg. Intake	2.E-16	4.E-14	<0.0001	<0.0001	3.E-12	5.E-12	<0.0001	5.E-11	4.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Root Veg. Intake	1.E-16	2.E-14	<0.0001	<0.0001	1.E-12	3.E-12	<0.0001	4.E-11	2.E-14	<0.0001	9.E-16	<0.0001	<0.0001	6.E-14	<0.0001
Fruit Intake	3.E-16	4.E-14	<0.0001	<0.0001	3.E-12	1.E-11	<0.0001	9.E-11	5.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Waste Concentration	4.E-16	5.E-14	<0.0001	<0.0001	6.E-12	4.E-12	<0.0001	3.E-11	2.E-14	<0.0001	2.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Meteorological Location	1.E-16	2.E-14	<0.0001	<0.0001	2.E-12	4.E-12	<0.0001	4.E-11	2.E-14	<0.0001	9.E-16	<0.0001	<0.0001	5.E-14	<0.0001
Distance to Receptor	6.E-16	1.E-13	<0.0001	<0.0001	9.E-12	2.E-11	<0.0001	2.E-10	1.E-13	<0.0001	6.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Waste Quantity	3.E-16	4.E-14	<0.0001	<0.0001	4.E-12	8.E-12	<0.0001	9.E-11	5.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
<b>Double High End Parameters</b>															
Exposure Duration/Exposed Veg. Intake	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	2.E-11	<0.0001	2.E-10	1.E-13	<0.0001	6.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Exposure Duration/Root Veg. Intake	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	1.E-11	<0.0001	1.E-10	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Exposure Duration/Fruit Intake	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	4.E-11	<0.0001	3.E-10	2.E-13	<0.0001	9.E-15	<0.0001	<0.0001	5.E-13	<0.0001
Exposure Duration/Waste Concentration	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	1.E-11	<0.0001	1.E-10	6.E-14	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	<0.0001
Exposure Duration/Met Location	4.E-16	6.E-14	<0.0001	<0.0001	6.E-12	1.E-11	<0.0001	1.E-10	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Exposure Duration/Distance to Receptor	2.E-15	3.E-13	<0.0001	<0.0001	3.E-11	7.E-11	<0.0001	7.E-10	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	<0.0001
Exposure Duration/Waste Quantity	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-11	<0.0001	3.E-10	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	2.E-16	4.E-14	<0.0001	<0.0001	3.E-12	5.E-12	<0.0001	6.E-11	4.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Exposed Veg. Intake/ Fruit Intake	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	1.E-11	<0.0001	1.E-10	7.E-14	<0.0001	4.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Exposed Veg. Intake/Waste Concentration	8.E-16	1.E-13	<0.0001	<0.0001	2.E-11	7.E-12	<0.0001	5.E-11	4.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Exposed Veg. Intake/Met Location	3.E-16	4.E-14	<0.0001	<0.0001	4.E-12	6.E-12	<0.0001	6.E-11	5.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Exposed Veg. Intake/Distance to Receptor	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-11	<0.0001	3.E-10	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	7.E-13	<0.0001
Exposed Veg. Intake/Waste Quantity	6.E-16	9.E-14	<0.0001	<0.0001	9.E-12	1.E-11	<0.0001	1.E-10	1.E-13	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Root Veg. Intake/Fruit Intake	3.E-16	4.E-14	<0.0001	<0.0001	4.E-12	1.E-11	<0.0001	1.E-10	5.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Root Veg. Intake/Waste Concentration	4.E-16	5.E-14	<0.0001	<0.0001	7.E-12	4.E-12	<0.0001	4.E-11	2.E-14	<0.0001	2.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Root Veg. Intake/Met Location	1.E-16	2.E-14	<0.0001	<0.0001	2.E-12	4.E-12	<0.0001	4.E-11	2.E-14	<0.0001	9.E-16	<0.0001	<0.0001	5.E-14	<0.0001
Root Veg. Intake/Distance to Receptor	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	2.E-11	<0.0001	2.E-10	1.E-13	<0.0001	6.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Root Veg. Intake/Waste Quantity	3.E-16	4.E-14	<0.0001	<0.0001	4.E-12	8.E-12	<0.0001	1.E-10	5.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Fruit Intake/Waste Concentration	1.E-15	1.E-13	<0.0001	<0.0001	2.E-11	1.E-11	<0.0001	9.E-11	5.E-14	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	<0.0001
Fruit Intake/Met Location	3.E-16	5.E-14	<0.0001	<0.0001	4.E-12	1.E-11	<0.0001	9.E-11	5.E-14	<0.0001	3.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Fruit Intake/Distance to Receptor	2.E-15	3.E-13	<0.0001	<0.0001	2.E-11	7.E-11	<0.0001	6.E-10	3.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	<0.0001
Fruit Intake/Waste Quantity	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	3.E-11	<0.0001	2.E-10	1.E-13	<0.0001	6.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Waste Concentration/Met Location	4.E-16	6.E-14	<0.0001	<0.0001	8.E-12	5.E-12	<0.0001	4.E-11	2.E-14	<0.0001	2.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Waste Concentration/Distance to Receptor	2.E-15	3.E-13	<0.0001	<0.0001	4.E-11	3.E-11	<0.0001	2.E-10	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	1.E-12	<0.0001
Waste Concentration/Waste Quantity	9.E-16	1.E-13	<0.0001	<0.0001	2.E-11	1.E-11	<0.0001	9.E-11	5.E-14	<0.0001	5.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Met Location/Distance to Receptor	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	2.E-11	<0.0001	2.E-10	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Met Location/Waste Quantity	3.E-16	4.E-14	<0.0001	<0.0001	4.E-12	9.E-12	<0.0001	9.E-11	6.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Distance to Receptor/Waste Quantity	2.E-15	2.E-13	<0.0001	<0.0001	2.E-11	5.E-11	<0.0001	5.E-10	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	<0.0001

**Table H.1.3b. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Gardener**

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6, 7,8,9-	HxCDD, 1,2,3,4,7,8	TCDF, 2,3,7,8-	HpCDF,1,2, 3,4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2, 3,4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	NA	7.E-15	NA	5.E-12	8.E-13	NA	NA	2.E-10	NA	7.E-11	NA	5.E-11	3.E-10	3.E-10	3.E-11	1.E-09
<b>Single High End Parameter</b>																
Exposure Duration	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Exposed Veg. Intake	NA	1.E-14	NA	8.E-12	1.E-12	NA	NA	3.E-10	NA	1.E-10	NA	7.E-11	5.E-10	5.E-10	5.E-11	2.E-09
Root Veg. Intake	NA	7.E-15	NA	5.E-12	8.E-13	NA	NA	2.E-10	NA	7.E-11	NA	5.E-11	3.E-10	3.E-10	3.E-11	1.E-09
Fruit Intake	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Waste Concentration	4.E-11	7.E-15	2.E-10	1.E-11	8.E-13	3.E-11	5.E-11	3.E-10	1.E-09	3.E-10	1.E-10	2.E-10	3.E-10	3.E-09	NA	6.E-09
Meteorological Location	NA	6.E-15	NA	5.E-12	7.E-13	NA	NA	2.E-10	NA	7.E-11	NA	5.E-11	3.E-10	3.E-10	3.E-11	1.E-09
Distance to Receptor	NA	4.E-14	NA	3.E-11	5.E-12	NA	NA	1.E-09	NA	4.E-10	NA	3.E-10	2.E-09	2.E-09	2.E-10	6.E-09
Waste Quantity	NA	2.E-14	NA	1.E-11	2.E-12	NA	NA	5.E-10	NA	2.E-10	NA	1.E-10	8.E-10	8.E-10	8.E-11	2.E-09
<b>Double High End Parameters</b>																
Exposure Duration/Exposed Veg. Intake	NA	4.E-14	NA	3.E-11	4.E-12	NA	NA	1.E-09	NA	4.E-10	NA	2.E-10	2.E-09	2.E-09	2.E-10	5.E-09
Exposure Duration/Root Veg. Intake	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Exposure Duration/Fruit Intake	NA	8.E-14	NA	6.E-11	8.E-12	NA	NA	2.E-09	NA	7.E-10	NA	5.E-10	4.E-09	4.E-09	3.E-10	1.E-08
Exposure Duration/Waste Concentration	1.E-10	2.E-14	5.E-10	5.E-11	3.E-12	1.E-10	2.E-10	1.E-09	5.E-09	1.E-09	4.E-10	6.E-10	1.E-09	1.E-08	NA	2.E-08
Exposure Duration/Met Location	NA	2.E-14	NA	2.E-11	2.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Exposure Duration/Distance to Receptor	NA	1.E-13	NA	1.E-10	2.E-11	NA	NA	4.E-09	NA	1.E-09	NA	1.E-09	7.E-09	7.E-09	6.E-10	2.E-08
Exposure Duration/Waste Quantity	NA	6.E-14	NA	4.E-11	6.E-12	NA	NA	2.E-09	NA	6.E-10	NA	4.E-10	3.E-09	3.E-09	3.E-10	8.E-09
Exposed Veg. Intake/ Root Veg. Intake	NA	1.E-14	NA	8.E-12	1.E-12	NA	NA	3.E-10	NA	1.E-10	NA	7.E-11	5.E-10	5.E-10	5.E-11	2.E-09
Exposed Veg. Intake/ Fruit Intake	NA	3.E-14	NA	2.E-11	3.E-12	NA	NA	7.E-10	NA	3.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	4.E-09
Exposed Veg. Intake/Waste Concentration	7.E-11	1.E-14	2.E-10	2.E-11	1.E-12	5.E-11	8.E-11	5.E-10	2.E-09	5.E-10	2.E-10	3.E-10	5.E-10	5.E-09	NA	9.E-09
Exposed Veg. Intake/Met Location	NA	1.E-14	NA	8.E-12	1.E-12	NA	NA	3.E-10	NA	1.E-10	NA	7.E-11	5.E-10	5.E-10	5.E-11	1.E-09
Exposed Veg. Intake/Distance to Receptor	NA	7.E-14	NA	5.E-11	8.E-12	NA	NA	2.E-09	NA	7.E-10	NA	5.E-10	3.E-09	3.E-09	3.E-10	1.E-08
Exposed Veg. Intake/Waste Quantity	NA	3.E-14	NA	2.E-11	3.E-12	NA	NA	7.E-10	NA	3.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	4.E-09
Root Veg. Intake/Fruit Intake	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Root Veg. Intake/Waste Concentration	4.E-11	7.E-15	2.E-10	1.E-11	8.E-13	3.E-11	5.E-11	3.E-10	1.E-09	3.E-10	1.E-10	2.E-10	3.E-10	3.E-09	NA	6.E-09
Root Veg. Intake/Met Location	NA	6.E-15	NA	5.E-12	7.E-13	NA	NA	2.E-10	NA	7.E-11	NA	5.E-11	3.E-10	3.E-10	3.E-11	1.E-09
Root Veg. Intake/Distance to Receptor	NA	4.E-14	NA	3.E-11	5.E-12	NA	NA	1.E-09	NA	4.E-10	NA	3.E-10	2.E-09	2.E-09	2.E-10	6.E-09
Root Veg. Intake/Waste Quantity	NA	2.E-14	NA	1.E-11	2.E-12	NA	NA	5.E-10	NA	2.E-10	NA	1.E-10	8.E-10	8.E-10	8.E-11	2.E-09
Fruit Intake/Waste Concentration	1.E-10	2.E-14	5.E-10	5.E-11	3.E-12	1.E-10	2.E-10	1.E-09	5.E-09	1.E-09	4.E-10	6.E-10	1.E-09	1.E-08	NA	2.E-08
Fruit Intake/Met Location	NA	2.E-14	NA	2.E-11	2.E-12	NA	NA	6.E-10	NA	2.E-10	NA	1.E-10	1.E-09	1.E-09	9.E-11	3.E-09
Fruit Intake/Distance to Receptor	NA	2.E-13	NA	1.E-10	2.E-11	NA	NA	4.E-09	NA	1.E-09	NA	1.E-09	7.E-09	7.E-09	6.E-10	2.E-08
Fruit Intake/Waste Quantity	NA	6.E-14	NA	4.E-11	6.E-12	NA	NA	2.E-09	NA	6.E-10	NA	4.E-10	3.E-09	3.E-09	2.E-10	8.E-09
Waste Concentration/Met Location	6.E-11	6.E-15	1.E-10	1.E-11	7.E-13	3.E-11	6.E-11	3.E-10	1.E-09	3.E-10	1.E-10	2.E-10	3.E-10	3.E-09	NA	6.E-09
Waste Concentration/Distance to Receptor	3.E-10	4.E-14	1.E-09	1.E-10	5.E-12	2.E-10	3.E-10	2.E-09	9.E-09	2.E-09	8.E-10	1.E-09	2.E-09	2.E-08	NA	4.E-08
Waste Concentration/Waste Quantity	1.E-10	2.E-14	4.E-10	4.E-11	2.E-12	9.E-11	1.E-10	8.E-10	4.E-09	7.E-10	3.E-10	4.E-10	8.E-10	7.E-09	NA	1.E-08
Met Location/Distance to Receptor	NA	4.E-14	NA	3.E-11	4.E-12	NA	NA	1.E-09	NA	4.E-10	NA	3.E-10	2.E-09	2.E-09	2.E-10	6.E-09
Met Location/Waste Quantity	NA	2.E-14	NA	1.E-11	2.E-12	NA	NA	4.E-10	NA	2.E-10	NA	1.E-10	7.E-10	8.E-10	8.E-11	2.E-09
Distance to Receptor/Waste Quantity	NA	1.E-13	NA	8.E-11	1.E-11	NA	NA	3.E-09	NA	1.E-09	NA	7.E-10	5.E-09	5.E-09	4.E-10	1.E-08

**Table H.1.3c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
<b>Central Tendency</b>	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																	
Exposure Duration	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	6.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	8.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	3.E-17	<0.0001	4.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	1.E-13	8.E-16	<0.0001	4.E-15	2.E-14	<0.0001	5.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	3.E-14	8.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	1.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	2.E-17	<0.0001	9.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																	
Exposure Duration/Beef Intake	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	8.E-14	<0.0001	8.E-17	<0.0001	3.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Dairy Intake	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	8.E-14	<0.0001	8.E-17	<0.0001	4.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	3.E-13	8.E-15	<0.0001	4.E-14	2.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Intake	<0.0001	<0.0001	1.E-13	4.E-15	<0.0001	2.E-14	8.E-14	<0.0001	8.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Fruit Intake	<0.0001	<0.0001	4.E-13	1.E-14	<0.0001	5.E-14	2.E-13	<0.0001	2.E-16	<0.0001	2.E-10	6.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	5.E-13	4.E-15	<0.0001	2.E-14	7.E-14	<0.0001	2.E-16	<0.0001	5.E-10	9.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	8.E-14	<0.0001	8.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	9.E-13	2.E-14	<0.0001	1.E-13	5.E-13	<0.0001	5.E-16	<0.0001	1.E-09	2.E-10	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	3.E-13	9.E-15	<0.0001	5.E-14	2.E-13	<0.0001	1.E-16	<0.0001	4.E-10	6.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/ Dairy Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	1.E-10	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/ Exposed Veg. Intake	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	3.E-17	<0.0001	7.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Root Vegetable Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	6.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	7.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Waste Concentration	<0.0001	<0.0001	1.E-13	8.E-16	<0.0001	4.E-15	2.E-14	<0.0001	5.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Met Location	<0.0001	<0.0001	3.E-14	8.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	6.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Distance to Receptor	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	1.E-13	<0.0001	1.E-16	<0.0001	4.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Exposed Vegetable Intake	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	3.E-17	<0.0001	8.E-11	9.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Root Vegetable Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	8.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Waste Concentration	<0.0001	<0.0001	1.E-13	8.E-16	<0.0001	4.E-15	2.E-14	<0.0001	5.E-17	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Met Location	<0.0001	<0.0001	3.E-14	8.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	8.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Distance to Receptor	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	1.E-13	<0.0001	1.E-16	<0.0001	5.E-10	5.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	3.E-17	<0.0001	4.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	6.E-14	<0.0001	6.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	2.E-13	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	8.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Met Location	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	4.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	4.E-13	1.E-14	<0.0001	5.E-14	2.E-13	<0.0001	2.E-16	<0.0001	2.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Quantity	<0.0001	<0.0001	1.E-13	4.E-15	<0.0001	2.E-14	8.E-14	<0.0001	4.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	1.E-13	8.E-16	<0.0001	4.E-15	2.E-14	<0.0001	5.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.3c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
Root Veg. Intake/Met Location	<0.0001	<0.0001	3.E-14	8.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	2.E-13	5.E-15	<0.0001	2.E-14	1.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	9.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Concentration	<0.0001	<0.0001	3.E-13	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	1.E-16	<0.0001	1.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Met Location	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	5.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	6.E-13	1.E-14	<0.0001	7.E-14	3.E-13	<0.0001	3.E-16	<0.0001	3.E-10	8.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Quantity	<0.0001	<0.0001	2.E-13	5.E-15	<0.0001	3.E-14	1.E-13	<0.0001	8.E-17	<0.0001	1.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	1.E-13	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	5.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	7.E-13	5.E-15	<0.0001	3.E-14	1.E-13	<0.0001	3.E-16	<0.0001	6.E-10	1.E-10	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	2.E-13	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	7.E-17	<0.0001	3.E-10	5.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	2.E-13	5.E-15	<0.0001	3.E-14	1.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	9.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	4.E-13	1.E-14	<0.0001	5.E-14	2.E-13	<0.0001	1.E-16	<0.0001	5.E-10	7.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.3c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chloroethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis(2-chloroisopropyl) ether	Mercury
<b>Central Tendency</b>	<0.0001	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	4.E-08	0.005	1.E-08	9.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.0007
<b>Single High End Parameter</b>																
Exposure Duration	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.005	5.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.0007
Beef Intake	<0.0001	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	6.E-08	0.008	2.E-08	9.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.001
Dairy Intake	<0.0001	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	8.E-08	0.01	2.E-08	9.E-14	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.002
Exposed Veg. Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	1.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.0007
Root Veg. Intake	<0.0001	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	4.E-08	0.005	1.E-08	9.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.0007
Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	1.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.0007
Waste Concentration	<0.0001	2.E-15	2.E-13	<0.0001	<0.0001	3.E-11	5.E-08	0.005	1.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Meteorological Location	<0.0001	6.E-16	9.E-14	<0.0001	<0.0001	8.E-12	4.E-08	0.006	1.E-08	1.E-13	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.0006
Distance to Receptor	<0.0001	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	2.E-07	0.03	7.E-08	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.005
Waste Quantity	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	9.E-08	0.01	3.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.002
<b>Double High End Parameters</b>																
Exposure Duration/Beef Intake	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	3.E-07	0.008	9.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.001
Exposure Duration/Dairy Intake	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	4.E-07	0.01	1.E-07	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.002
Exposure Duration/Exposed Veg. Intake	<0.0001	5.E-15	9.E-13	<0.0001	<0.0001	8.E-11	2.E-07	0.005	5.E-08	9.E-13	<0.0001	4.E-14	<0.0001	<0.0001	2.E-12	0.0007
Exposure Duration/Root Veg. Intake	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.005	5.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.0007
Exposure Duration/Fruit Intake	<0.0001	7.E-15	1.E-12	<0.0001	<0.0001	9.E-11	2.E-07	0.005	5.E-08	1.E-12	<0.0001	6.E-14	<0.0001	<0.0001	4.E-12	0.0007
Exposure Duration/Waste Concentration	<0.0001	9.E-15	1.E-12	<0.0001	<0.0001	2.E-10	2.E-07	0.005	5.E-08	5.E-13	<0.0001	5.E-14	<0.0001	<0.0001	4.E-12	0.001
Exposure Duration/Met Location	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	4.E-11	2.E-07	0.006	5.E-08	5.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.0006
Exposure Duration/Distance to Receptor	<0.0001	2.E-14	2.E-12	<0.0001	<0.0001	2.E-10	<b>1.E-06</b>	0.03	3.E-07	3.E-12	<0.0001	1.E-13	<0.0001	<0.0001	8.E-12	0.005
Exposure Duration/Waste Quantity	<0.0001	6.E-15	9.E-13	<0.0001	<0.0001	9.E-11	4.E-07	0.01	1.E-07	1.E-12	<0.0001	5.E-14	<0.0001	<0.0001	3.E-12	0.002
Beef Intake/ Dairy Intake	<0.0001	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	1.E-07	0.01	3.E-08	9.E-14	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.002
Beef Intake/ Exposed Veg. Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	6.E-08	0.008	2.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.001
Beef Intake/Root Vegetable Intake	<0.0001	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	6.E-08	0.008	2.E-08	9.E-14	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Beef Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	6.E-08	0.008	2.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Beef Intake/Waste Concentration	<0.0001	2.E-15	2.E-13	<0.0001	<0.0001	3.E-11	9.E-08	0.009	2.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.002
Beef Intake/Met Location	<0.0001	6.E-16	9.E-14	<0.0001	<0.0001	8.E-12	7.E-08	0.01	2.E-08	1.E-13	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.0008
Beef Intake/Distance to Receptor	<0.0001	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	4.E-07	0.05	1.E-07	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.006
Beef Intake/Waste Quantity	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	2.E-07	0.02	5.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.003
Dairy Intake/Exposed Vegetable Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	8.E-08	0.01	2.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.002
Dairy Intake/Root Vegetable Intake	<0.0001	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	8.E-08	0.01	2.E-08	9.E-14	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.002
Dairy Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	8.E-08	0.01	2.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.002
Dairy Intake/Waste Concentration	<0.0001	2.E-15	2.E-13	<0.0001	<0.0001	3.E-11	1.E-07	0.01	2.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.004
Dairy Intake/Met Location	<0.0001	6.E-16	9.E-14	<0.0001	<0.0001	8.E-12	9.E-08	0.01	2.E-08	1.E-13	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.001
Dairy Intake/Distance to Receptor	<0.0001	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	5.E-07	0.06	1.E-07	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.01
Dairy Intake/Waste Quantity	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	2.E-07	0.02	6.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	7.E-13	0.005
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	1.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.0007
Exposed Veg. Intake/ Fruit Intake	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	3.E-11	4.E-08	0.005	1.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.0007
Exposed Veg. Intake/Waste Concentration	<0.0001	4.E-15	5.E-13	<0.0001	<0.0001	7.E-11	5.E-08	0.005	1.E-08	2.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.001
Exposed Veg. Intake/Met Location	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.006	1.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.0006
Exposed Veg. Intake/Distance to Receptor	<0.0001	7.E-15	1.E-12	<0.0001	<0.0001	1.E-10	2.E-07	0.03	7.E-08	1.E-12	<0.0001	5.E-14	<0.0001	<0.0001	3.E-12	0.005
Exposed Veg. Intake/Waste Quantity	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	4.E-11	9.E-08	0.01	3.E-08	5.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.002
Root Veg. Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	1.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.0007
Root Veg. Intake/Waste Concentration	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	3.E-11	5.E-08	0.005	1.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001

**Table H.1.3c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
Root Veg. Intake/Met Location	<0.0001	6.E-16	9.E-14	<0.0001	<0.0001	9.E-12	4.E-08	0.006	1.E-08	1.E-13	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.0006
Root Veg. Intake/Distance to Receptor	<0.0001	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	2.E-07	0.03	7.E-08	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.005
Root Veg. Intake/Waste Quantity	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	9.E-08	0.01	3.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.002
Fruit Intake/Waste Concentration	<0.0001	5.E-15	7.E-13	<0.0001	<0.0001	9.E-11	5.E-08	0.005	1.E-08	3.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.001
Fruit Intake/Met Location	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.006	1.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.0006
Fruit Intake/Distance to Receptor	<0.0001	9.E-15	1.E-12	<0.0001	<0.0001	1.E-10	2.E-07	0.03	7.E-08	2.E-12	<0.0001	8.E-14	<0.0001	<0.0001	5.E-12	0.005
Fruit Intake/Waste Quantity	<0.0001	4.E-15	5.E-13	<0.0001	<0.0001	5.E-11	9.E-08	0.01	3.E-08	7.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.002
Waste Concentration/Met Location	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	4.E-11	5.E-08	0.006	1.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	7.E-13	0.001
Waste Concentration/Distance to Receptor	<0.0001	1.E-14	2.E-12	<0.0001	<0.0001	2.E-10	3.E-07	0.03	7.E-08	6.E-13	<0.0001	7.E-14	<0.0001	<0.0001	5.E-12	0.01
Waste Concentration/Waste Quantity	<0.0001	5.E-15	6.E-13	<0.0001	<0.0001	8.E-11	1.E-07	0.01	3.E-08	3.E-13	<0.0001	2.E-14	<0.0001	<0.0001	2.E-12	0.005
Met Location/Distance to Receptor	<0.0001	3.E-15	5.E-13	<0.0001	<0.0001	5.E-11	2.E-07	0.03	6.E-08	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.004
Met Location/Waste Quantity	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	1.E-07	0.01	3.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.001
Distance to Receptor/Waste Quantity	<0.0001	8.E-15	1.E-12	<0.0001	<0.0001	1.E-10	5.E-07	0.06	2.E-07	1.E-12	<0.0001	6.E-14	<0.0001	<0.0001	4.E-12	0.01

**Table H.1.3c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7,8 ,-9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8 ,-9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2, 3,4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
<b>Single High End Parameter</b>																
Exposure Duration	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Beef Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake	NA	1.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Exposed Veg. Intake	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Root Veg. Intake	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Fruit Intake	NA	9.E-13	NA	6.E-10	8.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Waste Concentration	4.E-08	8.E-13	8.E-08	1.E-09	7.E-11	2.E-08	1.E-08	7.E-08	<b>1.E-06</b>	1.E-07	6.E-08	8.E-08	3.E-08	<b>2.E-06</b>	NA	<b>4.E-06</b>
Meteorological Location	NA	7.E-13	NA	5.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	5.E-08	8.E-08	5.E-07	4.E-08	9.E-07
<b>Double High End Parameters</b>																
Exposure Duration/Beef Intake	NA	9.E-12	NA	5.E-09	7.E-10	NA	NA	4.E-07	NA	3.E-07	NA	2.E-07	3.E-07	<b>2.E-06</b>	1.E-07	<b>4.E-06</b>
Exposure Duration/Dairy Intake	NA	7.E-12	NA	5.E-09	6.E-10	NA	NA	4.E-07	NA	3.E-07	NA	2.E-07	3.E-07	<b>2.E-06</b>	1.E-07	<b>3.E-06</b>
Exposure Duration/Exposed Veg. Intake	NA	4.E-12	NA	3.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Exposure Duration/Root Veg. Intake	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Exposure Duration/Fruit Intake	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Exposure Duration/Waste Concentration	2.E-07	4.E-12	4.E-07	7.E-09	3.E-10	9.E-08	5.E-08	3.E-07	<b>6.E-06</b>	7.E-07	3.E-07	4.E-07	2.E-07	<b>9.E-06</b>	NA	<b>2.E-05</b>
Exposure Duration/Met Location	NA	3.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	1.E-07	NA	9.E-08	1.E-07	9.E-07	7.E-08	<b>2.E-06</b>
Exposure Duration/Distance to Receptor	NA	2.E-11	NA	2.E-08	2.E-09	NA	NA	1.E-06	NA	1.E-06	NA	7.E-07	1.E-06	<b>6.E-06</b>	5.E-07	<b>1.E-05</b>
Exposure Duration/Waste Quantity	NA	1.E-11	NA	6.E-09	8.E-10	NA	NA	5.E-07	NA	4.E-07	NA	3.E-07	4.E-07	<b>3.E-06</b>	2.E-07	<b>4.E-06</b>
Beef Intake/ Dairy Intake	NA	2.E-12	NA	2.E-09	2.E-10	NA	NA	1.E-07	NA	1.E-07	NA	7.E-08	9.E-08	6.E-07	5.E-08	<b>1.E-06</b>
Beef Intake/ Exposed Veg. Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Root Vegetable Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Fruit Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Waste Concentration	9.E-08	2.E-12	2.E-07	3.E-09	1.E-10	4.E-08	2.E-08	1.E-07	<b>2.E-06</b>	3.E-07	1.E-07	2.E-07	7.E-08	<b>4.E-06</b>	NA	<b>7.E-06</b>
Beef Intake/Met Location	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Distance to Receptor	NA	1.E-11	NA	7.E-09	9.E-10	NA	NA	5.E-07	NA	4.E-07	NA	3.E-07	4.E-07	<b>3.E-06</b>	2.E-07	<b>5.E-06</b>
Beef Intake/Waste Quantity	NA	5.E-12	NA	3.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	8.E-08	<b>2.E-06</b>
Dairy Intake/Exposed Vegetable Intake	NA	1.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake/Root Vegetable Intake	NA	1.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake/Fruit Intake	NA	1.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake/Waste Concentration	8.E-08	1.E-12	2.E-07	3.E-09	1.E-10	4.E-08	2.E-08	2.E-07	<b>2.E-06</b>	3.E-07	1.E-07	1.E-07	6.E-08	<b>4.E-06</b>	NA	<b>7.E-06</b>
Dairy Intake/Met Location	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	8.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Dairy Intake/Distance to Receptor	NA	9.E-12	NA	6.E-09	8.E-10	NA	NA	6.E-07	NA	4.E-07	NA	3.E-07	4.E-07	<b>3.E-06</b>	2.E-07	<b>4.E-06</b>
Dairy Intake/Waste Quantity	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	1.E-07	<b>1.E-06</b>	8.E-08	<b>2.E-06</b>
Exposed Veg. Intake/ Root Veg. Intake	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Exposed Veg. Intake/ Fruit Intake	NA	9.E-13	NA	6.E-10	8.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	4.E-08	2.E-07	2.E-08	4.E-07
Exposed Veg. Intake/Waste Concentration	4.E-08	8.E-13	8.E-08	1.E-09	7.E-11	2.E-08	1.E-08	7.E-08	<b>1.E-06</b>	1.E-07	6.E-08	8.E-08	3.E-08	<b>2.E-06</b>	NA	<b>4.E-06</b>
Exposed Veg. Intake/Met Location	NA	7.E-13	NA	5.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Exposed Veg. Intake/Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Exposed Veg. Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	6.E-08	8.E-08	5.E-07	4.E-08	9.E-07
Root Veg. Intake/Fruit Intake	NA	9.E-13	NA	6.E-10	8.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Root Veg. Intake/Waste Concentration	4.E-08	8.E-13	8.E-08	1.E-09	7.E-11	2.E-08	1.E-08	7.E-08	<b>1.E-06</b>	1.E-07	6.E-08	8.E-08	3.E-08	<b>2.E-06</b>	NA	<b>4.E-06</b>

**Table H.1.3c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7,8 ,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8 ,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2, 3,4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
Root Veg. Intake/Met Location	NA	7.E-13	NA	5.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Root Veg. Intake/Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Root Veg. Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	5.E-08	8.E-08	5.E-07	4.E-08	9.E-07
Fruit Intake/Waste Concentration	4.E-08	9.E-13	8.E-08	2.E-09	8.E-11	2.E-08	1.E-08	7.E-08	<b>1.E-06</b>	1.E-07	6.E-08	8.E-08	3.E-08	<b>2.E-06</b>	NA	<b>4.E-06</b>
Fruit Intake/Met Location	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Fruit Intake/Distance to Receptor	NA	6.E-12	NA	4.E-09	5.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Fruit Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	6.E-08	9.E-08	5.E-07	4.E-08	9.E-07
Waste Concentration/Met Location	5.E-08	7.E-13	7.E-08	1.E-09	6.E-11	2.E-08	1.E-08	6.E-08	<b>1.E-06</b>	1.E-07	5.E-08	7.E-08	3.E-08	<b>2.E-06</b>	NA	<b>3.E-06</b>
Waste Concentration/Distance to Receptor	3.E-07	5.E-12	5.E-07	9.E-09	4.E-10	1.E-07	7.E-08	5.E-07	<b>7.E-06</b>	9.E-07	4.E-07	5.E-07	2.E-07	<b>1.E-05</b>	NA	<b>2.E-05</b>
Waste Concentration/Waste Quantity	1.E-07	2.E-12	2.E-07	4.E-09	2.E-10	4.E-08	3.E-08	2.E-07	<b>3.E-06</b>	4.E-07	1.E-07	2.E-07	8.E-08	<b>5.E-06</b>	NA	<b>9.E-06</b>
Met Location/Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	8.E-08	<b>2.E-06</b>
Met Location/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	9.E-08	NA	8.E-08	NA	5.E-08	7.E-08	5.E-07	3.E-08	8.E-07
Distance to Receptor/Waste Quantity	NA	1.E-11	NA	8.E-09	1.E-09	NA	NA	6.E-07	NA	5.E-07	NA	3.E-07	5.E-07	<b>3.E-06</b>	2.E-07	<b>5.E-06</b>



**Table H.1.3d. Risk and Sensitivity Analysis for Ingestion Exposure, Baton Rouge as High End Location  
(Tank Non-Groundwater Deterministic), Fisher**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloro methane	Methyl ethyl ketone	Trichloro ethylene	Diethyl phthalate	Pentachlor ophenol*	Trichloro phenol, 2,4,6-	Cresol, o-	Trichloro phenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol	Cresol, p-
Central Tendency	<0.0001	<0.0001	3.E-14	1.E-15	<0.0001	4.E-15	2.E-14	<0.0001	7.E-17	<0.0001	2.E-12	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																		
Exposure Duration	<0.0001	<0.0001	9.E-14	5.E-15	<0.0001	1.E-14	8.E-14	<0.0001	2.E-16	<0.0001	6.E-12	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake	<0.0001	<0.0001	9.E-14	4.E-15	<0.0001	1.E-14	7.E-14	<0.0001	2.E-16	<0.0001	5.E-12	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	1.E-13	1.E-15	<0.0001	4.E-15	2.E-14	<0.0001	2.E-16	<0.0001	5.E-12	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location	<0.0001	<0.0001	3.E-14	1.E-15	<0.0001	4.E-15	2.E-14	<0.0001	9.E-17	<0.0001	5.E-12	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	1.E-13	6.E-15	<0.0001	2.E-14	9.E-14	<0.0001	3.E-16	<0.0001	8.E-12	8.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	6.E-14	3.E-15	<0.0001	9.E-15	5.E-14	<0.0001	1.E-16	<0.0001	4.E-12	5.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																		
Exposure Duration/Fish Intake	<0.0001	<0.0001	3.E-13	1.E-14	<0.0001	4.E-14	2.E-13	<0.0001	8.E-16	<0.0001	2.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	3.E-13	5.E-15	<0.0001	1.E-14	8.E-14	<0.0001	7.E-16	<0.0001	2.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	1.E-13	5.E-15	<0.0001	1.E-14	8.E-14	<0.0001	3.E-16	<0.0001	2.E-11	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	4.E-13	2.E-14	<0.0001	5.E-14	3.E-13	<0.0001	8.E-16	<0.0001	3.E-11	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	2.E-13	1.E-14	<0.0001	3.E-14	2.E-13	<0.0001	4.E-16	<0.0001	1.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Waste Concentration	<0.0001	<0.0001	3.E-13	5.E-15	<0.0001	1.E-14	7.E-14	<0.0001	6.E-16	<0.0001	1.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Met Location	<0.0001	<0.0001	9.E-14	4.E-15	<0.0001	1.E-14	7.E-14	<0.0001	3.E-16	<0.0001	2.E-11	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Distance to Receptor	<0.0001	<0.0001	3.E-13	2.E-14	<0.0001	5.E-14	3.E-13	<0.0001	8.E-16	<0.0001	2.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Waste Quantity	<0.0001	<0.0001	2.E-13	1.E-14	<0.0001	3.E-14	2.E-13	<0.0001	3.E-16	<0.0001	1.E-11	1.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	1.E-13	1.E-15	<0.0001	4.E-15	2.E-14	<0.0001	3.E-16	<0.0001	1.E-11	8.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	4.E-13	6.E-15	<0.0001	2.E-14	9.E-14	<0.0001	7.E-16	<0.0001	2.E-11	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	9.E-15	5.E-14	<0.0001	3.E-16	<0.0001	1.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	1.E-13	5.E-15	<0.0001	1.E-14	9.E-14	<0.0001	3.E-16	<0.0001	2.E-11	9.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity/Met Location	<0.0001	<0.0001	7.E-14	4.E-15	<0.0001	8.E-15	5.E-14	<0.0001	1.E-16	<0.0001	1.E-11	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity/Distance to Receptor	<0.0001	<0.0001	2.E-13	1.E-14	<0.0001	3.E-14	2.E-13	<0.0001	4.E-16	<0.0001	2.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.3d. Risk and Sensitivity Analysis for Ingestion Exposure, Baton Rouge as High End Location (Tank Non-Groundwater Deterministic), Fisher**

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High End Parameter(s)	Allyl chloride	Dichloro ethane, 1,2-	Chloro-benzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Hexachloro benzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloro ethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
<b>Central Tendency</b>	2.E-15	2.E-13	<0.0001	<0.0001	1.E-12	4.E-14	<0.0001	6.E-09	9.E-14	<0.0001	4.E-14	<0.0001	<0.0001	2.E-13	0.001
<b>Single High End Parameter</b>															
Exposure Duration	8.E-15	6.E-13	<0.0001	<0.0001	5.E-12	1.E-13	<0.0001	2.E-08	3.E-13	<0.0001	1.E-13	<0.0001	<0.0001	8.E-13	0.001
Fish Intake	7.E-15	6.E-13	<0.0001	<0.0001	4.E-12	1.E-13	<0.0001	2.E-08	3.E-13	<0.0001	1.E-13	<0.0001	<0.0001	8.E-13	0.003
Waste Concentration	8.E-15	6.E-13	<0.0001	<0.0001	6.E-12	6.E-14	<0.0001	6.E-09	1.E-13	<0.0001	9.E-14	<0.0001	<0.0001	7.E-13	0.002
Met Location	3.E-15	2.E-13	<0.0001	<0.0001	1.E-12	3.E-13	<0.0001	2.E-08	9.E-14	<0.0001	4.E-14	<0.0001	<0.0001	2.E-13	0.001
Distance to Receptor	8.E-15	8.E-13	<0.0001	<0.0001	6.E-12	2.E-13	<0.0001	3.E-08	4.E-13	<0.0001	1.E-13	<0.0001	<0.0001	1.E-12	0.003
Waste Quantity	6.E-15	4.E-13	<0.0001	<0.0001	3.E-12	1.E-13	<0.0001	2.E-08	3.E-13	<0.0001	8.E-14	<0.0001	<0.0001	6.E-13	0.003
<b>Double High End Parameters</b>															
Exposure Duration/Fish Intake	2.E-14	2.E-12	<0.0001	<0.0001	1.E-11	4.E-13	<0.0001	6.E-08	1.E-12	<0.0001	4.E-13	<0.0001	<0.0001	3.E-12	0.003
Exposure Duration/Waste Concentration	3.E-14	2.E-12	<0.0001	<0.0001	2.E-11	2.E-13	<0.0001	2.E-08	3.E-13	<0.0001	3.E-13	<0.0001	<0.0001	2.E-12	0.002
Exposure Duration/Met Location	9.E-15	6.E-13	<0.0001	<0.0001	4.E-12	9.E-13	<0.0001	7.E-08	3.E-13	<0.0001	1.E-13	<0.0001	<0.0001	7.E-13	0.001
Exposure Duration/Distance to Receptor	3.E-14	3.E-12	<0.0001	<0.0001	2.E-11	7.E-13	<0.0001	9.E-08	1.E-12	<0.0001	4.E-13	<0.0001	<0.0001	4.E-12	0.003
Exposure Duration/Waste Quantity	2.E-14	1.E-12	<0.0001	<0.0001	1.E-11	4.E-13	<0.0001	5.E-08	9.E-13	<0.0001	3.E-13	<0.0001	<0.0001	2.E-12	0.003
Fish Intake/Waste Concentration	2.E-14	2.E-12	<0.0001	<0.0001	2.E-11	2.E-13	<0.0001	2.E-08	3.E-13	<0.0001	3.E-13	<0.0001	<0.0001	2.E-12	0.007
Fish Intake/Met Location	8.E-15	6.E-13	<0.0001	<0.0001	4.E-12	8.E-13	<0.0001	7.E-08	3.E-13	<0.0001	1.E-13	<0.0001	<0.0001	7.E-13	0.004
Fish Intake/Distance to Receptor	2.E-14	3.E-12	<0.0001	<0.0001	2.E-11	7.E-13	<0.0001	8.E-08	1.E-12	<0.0001	4.E-13	<0.0001	<0.0001	3.E-12	0.01
Fish Intake/Waste Quantity	2.E-14	1.E-12	<0.0001	<0.0001	1.E-11	3.E-13	<0.0001	5.E-08	8.E-13	<0.0001	3.E-13	<0.0001	<0.0001	2.E-12	0.008
Waste Concentration/Met Location	9.E-15	6.E-13	<0.0001	<0.0001	6.E-12	4.E-13	<0.0001	2.E-08	1.E-13	<0.0001	1.E-13	<0.0001	<0.0001	7.E-13	0.003
Waste Concentration/Distance to Receptor	3.E-14	2.E-12	<0.0001	<0.0001	3.E-11	3.E-13	<0.0001	3.E-08	4.E-13	<0.0001	3.E-13	<0.0001	<0.0001	3.E-12	0.008
Waste Concentration/Waste Quantity	2.E-14	1.E-12	<0.0001	<0.0001	2.E-11	2.E-13	<0.0001	2.E-08	3.E-13	<0.0001	2.E-13	<0.0001	<0.0001	2.E-12	0.006
Met Location/Distance to Receptor	9.E-15	8.E-13	<0.0001	<0.0001	6.E-12	1.E-12	<0.0001	9.E-08	4.E-13	<0.0001	1.E-13	<0.0001	<0.0001	9.E-13	0.005
Waste Quantity/Met Location	7.E-15	4.E-13	<0.0001	<0.0001	3.E-12	7.E-13	<0.0001	6.E-08	3.E-13	<0.0001	1.E-13	<0.0001	<0.0001	5.E-13	0.004
Waste Quantity/Distance to Receptor	2.E-14	2.E-12	<0.0001	<0.0001	1.E-11	5.E-13	<0.0001	6.E-08	1.E-12	<0.0001	2.E-13	<0.0001	<0.0001	2.E-12	0.009

**Table H.1.3d. Risk and Sensitivity Analysis for Ingestion Exposure, Baton Rouge as High End Location  
(Tank Non-Groundwater Deterministic), Fisher**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7,8,9	HxCDD, 1,2,3,7,8, 9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8,9-	HxCDF, 1,2,3,4,7, 8-	TCDF, 2,3,7,8-	HpCDF,1,2 ,3,4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2, 3,4,6,7,8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	NA	8.E-22	NA	7.E-16	5.E-19	NA	NA	2.E-14	NA	2.E-13	NA	1.E-13	3.E-14	8.E-13	7.E-14	1.E-12
<b>Single High End Parameter</b>																
Exposure Duration	NA	3.E-21	NA	2.E-15	2.E-18	NA	NA	6.E-14	NA	5.E-13	NA	4.E-13	1.E-13	3.E-12	2.E-13	4.E-12
Fish Intake	NA	2.E-21	NA	2.E-15	2.E-18	NA	NA	6.E-14	NA	5.E-13	NA	4.E-13	1.E-13	3.E-12	2.E-13	4.E-12
Waste Concentration	6.E-13	8.E-22	1.E-13	2.E-15	5.E-19	3.E-14	5.E-13	3.E-14	3.E-12	7.E-13	1.E-13	4.E-13	3.E-14	7.E-12	NA	1.E-11
Met Location	NA	4.E-21	NA	3.E-15	3.E-18	NA	NA	9.E-14	NA	8.E-13	NA	6.E-13	2.E-13	4.E-12	4.E-13	6.E-12
Distance to Receptor	NA	4.E-21	NA	3.E-15	3.E-18	NA	NA	9.E-14	NA	8.E-13	NA	6.E-13	2.E-13	4.E-12	4.E-13	6.E-12
Waste Quantity	NA	2.E-21	NA	2.E-15	1.E-18	NA	NA	5.E-14	NA	4.E-13	NA	3.E-13	8.E-14	2.E-12	2.E-13	3.E-12
<b>Double High End Parameters</b>																
Exposure Duration/Fish Intake	NA	8.E-21	NA	7.E-15	6.E-18	NA	NA	2.E-13	NA	2.E-12	NA	1.E-12	3.E-13	8.E-12	8.E-13	1.E-11
Exposure Duration/Waste Concentration	2.E-12	3.E-21	4.E-13	7.E-15	2.E-18	9.E-14	2.E-12	1.E-13	9.E-12	2.E-12	3.E-13	1.E-12	1.E-13	2.E-11	NA	4.E-11
Exposure Duration/Met Location	NA	1.E-20	NA	1.E-14	9.E-18	NA	NA	3.E-13	NA	3.E-12	NA	2.E-12	5.E-13	1.E-11	1.E-12	2.E-11
Exposure Duration/Distance to Receptor	NA	1.E-20	NA	1.E-14	9.E-18	NA	NA	3.E-13	NA	3.E-12	NA	2.E-12	5.E-13	1.E-11	1.E-12	2.E-11
Exposure Duration/Waste Quantity	NA	7.E-21	NA	6.E-15	5.E-18	NA	NA	2.E-13	NA	1.E-12	NA	1.E-12	3.E-13	7.E-12	6.E-13	1.E-11
Fish Intake/Waste Concentration	2.E-12	2.E-21	4.E-13	6.E-15	2.E-18	9.E-14	2.E-12	1.E-13	8.E-12	2.E-12	3.E-13	1.E-12	1.E-13	2.E-11	NA	4.E-11
Fish Intake/Met Location	NA	1.E-20	NA	1.E-14	8.E-18	NA	NA	3.E-13	NA	2.E-12	NA	2.E-12	5.E-13	1.E-11	1.E-12	2.E-11
Fish Intake/Distance to Receptor	NA	1.E-20	NA	1.E-14	8.E-18	NA	NA	3.E-13	NA	2.E-12	NA	2.E-12	5.E-13	1.E-11	1.E-12	2.E-11
Fish Intake/Waste Quantity	NA	6.E-21	NA	6.E-15	4.E-18	NA	NA	2.E-13	NA	1.E-12	NA	9.E-13	3.E-13	6.E-12	6.E-13	1.E-11
Waste Concentration/Met Location	3.E-12	4.E-21	6.E-13	1.E-14	3.E-18	1.E-13	2.E-12	2.E-13	1.E-11	3.E-12	5.E-13	2.E-12	2.E-13	3.E-11	NA	6.E-11
Waste Concentration/Distance to Receptor	3.E-12	4.E-21	6.E-13	1.E-14	3.E-18	1.E-13	2.E-12	2.E-13	1.E-11	3.E-12	5.E-13	2.E-12	2.E-13	3.E-11	NA	6.E-11
Waste Concentration/Waste Quantity	1.E-12	2.E-21	3.E-13	5.E-15	1.E-18	7.E-14	1.E-12	8.E-14	7.E-12	2.E-12	3.E-13	1.E-12	8.E-14	2.E-11	NA	3.E-11
Met Location/Distance to Receptor	NA	2.E-20	NA	2.E-14	1.E-17	NA	NA	4.E-13	NA	4.E-12	NA	3.E-12	7.E-13	2.E-11	2.E-12	3.E-11
Waste Quantity/Met Location	NA	9.E-21	NA	8.E-15	7.E-18	NA	NA	2.E-13	NA	2.E-12	NA	1.E-12	4.E-13	1.E-11	9.E-13	1.E-11
Waste Quantity/Distance to Receptor	NA	9.E-21	NA	8.E-15	6.E-18	NA	NA	2.E-13	NA	2.E-12	NA	1.E-12	4.E-13	9.E-12	8.E-13	1.E-11

**Table H.1.3e. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
<b>Central Tendency</b>	<0.0001	<0.0001	8.E-17	1.E-18	<0.0001	2.E-17	7.E-17	<0.0001	7.E-20	<0.0001	3.E-15	3.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																	
Exposure Duration	<0.0001	<0.0001	2.E-16	2.E-18	<0.0001	5.E-17	1.E-16	<0.0001	1.E-19	<0.0001	6.E-15	5.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	3.E-16	1.E-18	<0.0001	3.E-17	7.E-17	<0.0001	2.E-19	<0.0001	7.E-15	9.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	7.E-17	2.E-16	<0.0001	2.E-19	<0.0001	8.E-15	8.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	1.E-16	1.E-18	<0.0001	3.E-17	8.E-17	<0.0001	9.E-20	<0.0001	2.E-14	4.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	5.E-16	7.E-18	<0.0001	1.E-16	4.E-16	<0.0001	4.E-19	<0.0001	1.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	6.E-17	2.E-16	<0.0001	1.E-19	<0.0001	7.E-15	7.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																	
Exposure Duration/Waste Concentration	<0.0001	<0.0001	6.E-16	2.E-18	<0.0001	5.E-17	1.E-16	<0.0001	4.E-19	<0.0001	2.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Child Soil Intake	<0.0001	<0.0001	5.E-16	7.E-18	<0.0001	2.E-16	4.E-16	<0.0001	4.E-19	<0.0001	2.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	6.E-17	2.E-16	<0.0001	2.E-19	<0.0001	4.E-14	7.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	1.E-15	1.E-17	<0.0001	3.E-16	8.E-16	<0.0001	9.E-19	<0.0001	3.E-14	3.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	4.E-16	6.E-18	<0.0001	1.E-16	3.E-16	<0.0001	2.E-19	<0.0001	1.E-14	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Child Soil Intake	<0.0001	<0.0001	8.E-16	3.E-18	<0.0001	7.E-17	2.E-16	<0.0001	6.E-19	<0.0001	2.E-14	3.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	3.E-16	1.E-18	<0.0001	3.E-17	8.E-17	<0.0001	3.E-19	<0.0001	6.E-14	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	2.E-15	7.E-18	<0.0001	2.E-16	4.E-16	<0.0001	1.E-18	<0.0001	3.E-14	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	7.E-16	3.E-18	<0.0001	6.E-17	2.E-16	<0.0001	3.E-19	<0.0001	2.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Met Location	<0.0001	<0.0001	3.E-16	4.E-18	<0.0001	9.E-17	2.E-16	<0.0001	3.E-19	<0.0001	6.E-14	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Distance to Receptor	<0.0001	<0.0001	2.E-15	2.E-17	<0.0001	4.E-16	1.E-15	<0.0001	1.E-18	<0.0001	4.E-14	5.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Waste Quantity	<0.0001	<0.0001	6.E-16	8.E-18	<0.0001	2.E-16	5.E-16	<0.0001	3.E-19	<0.0001	2.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	6.E-16	8.E-18	<0.0001	2.E-16	5.E-16	<0.0001	5.E-19	<0.0001	9.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	7.E-17	2.E-16	<0.0001	1.E-19	<0.0001	5.E-14	9.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	1.E-15	2.E-17	<0.0001	3.E-16	9.E-16	<0.0001	6.E-19	<0.0001	3.E-14	4.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.3e. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	<0.0001	9.E-19	2.E-16	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	2.E-11	4.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Single High End Parameter																
Exposure Duration	<0.0001	2.E-18	3.E-16	<0.0001	<0.0001	2.E-14	7.E-16	<0.0001	4.E-11	9.E-16	<0.0001	4.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Waste Concentration	<0.0001	3.E-18	5.E-16	<0.0001	<0.0001	5.E-14	4.E-16	<0.0001	2.E-11	5.E-16	<0.0001	5.E-17	<0.0001	<0.0001	4.E-15	<0.0001
Child Soil Intake	<0.0001	3.E-18	5.E-16	<0.0001	<0.0001	3.E-14	1.E-15	<0.0001	6.E-11	1.E-15	<0.0001	6.E-17	<0.0001	<0.0001	4.E-15	<0.0001
Meteorological Location	<0.0001	1.E-18	2.E-16	<0.0001	<0.0001	1.E-14	4.E-15	<0.0001	2.E-11	5.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Distance to Receptor	<0.0001	6.E-18	9.E-16	<0.0001	<0.0001	7.E-14	1.E-15	<0.0001	1.E-10	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	7.E-15	<0.0001
Waste Quantity	<0.0001	2.E-18	4.E-16	<0.0001	<0.0001	3.E-14	8.E-16	<0.0001	5.E-11	1.E-15	<0.0001	4.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Double High End Parameters																
Exposure Duration/Waste Concentration	<0.0001	7.E-18	1.E-15	<0.0001	<0.0001	1.E-13	9.E-16	<0.0001	4.E-11	1.E-15	<0.0001	1.E-16	<0.0001	<0.0001	7.E-15	<0.0001
Exposure Duration/Child Soil Intake	<0.0001	6.E-18	1.E-15	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-10	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	7.E-15	<0.0001
Exposure Duration/Met Location	<0.0001	2.E-18	4.E-16	<0.0001	<0.0001	3.E-14	7.E-15	<0.0001	5.E-11	1.E-15	<0.0001	5.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	1.E-17	2.E-15	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-10	6.E-15	<0.0001	2.E-16	<0.0001	<0.0001	2.E-14	<0.0001
Exposure Duration/Waste Quantity	<0.0001	5.E-18	7.E-16	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	1.E-10	3.E-15	<0.0001	9.E-17	<0.0001	<0.0001	6.E-15	<0.0001
Waste Concentration/ Child Soil Intake	<0.0001	1.E-17	1.E-15	<0.0001	<0.0001	2.E-13	1.E-15	<0.0001	6.E-11	1.E-15	<0.0001	1.E-16	<0.0001	<0.0001	1.E-14	<0.0001
Waste Concentration/Met Location	<0.0001	4.E-18	6.E-16	<0.0001	<0.0001	6.E-14	5.E-15	<0.0001	2.E-11	6.E-16	<0.0001	6.E-17	<0.0001	<0.0001	4.E-15	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	2.E-17	3.E-15	<0.0001	<0.0001	3.E-13	2.E-15	<0.0001	1.E-10	3.E-15	<0.0001	3.E-16	<0.0001	<0.0001	2.E-14	<0.0001
Waste Concentration/Waste Quantity	<0.0001	8.E-18	1.E-15	<0.0001	<0.0001	1.E-13	1.E-15	<0.0001	5.E-11	1.E-15	<0.0001	1.E-16	<0.0001	<0.0001	8.E-15	<0.0001
Child Soil Intake/Met Location	<0.0001	3.E-18	6.E-16	<0.0001	<0.0001	4.E-14	1.E-14	<0.0001	7.E-11	2.E-15	<0.0001	7.E-17	<0.0001	<0.0001	4.E-15	<0.0001
Child Soil Intake/Distance to Receptor	<0.0001	2.E-17	3.E-15	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	3.E-10	8.E-15	<0.0001	3.E-16	<0.0001	<0.0001	2.E-14	<0.0001
Child Soil Intake/Waste Quantity	<0.0001	7.E-18	1.E-15	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-10	4.E-15	<0.0001	1.E-16	<0.0001	<0.0001	9.E-15	<0.0001
Met Location/Distance to Receptor	<0.0001	7.E-18	1.E-15	<0.0001	<0.0001	8.E-14	2.E-14	<0.0001	1.E-10	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	8.E-15	<0.0001
Met Location/Waste Quantity	<0.0001	3.E-18	4.E-16	<0.0001	<0.0001	3.E-14	9.E-15	<0.0001	6.E-11	1.E-15	<0.0001	5.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	1.E-17	2.E-15	<0.0001	<0.0001	2.E-13	3.E-15	<0.0001	3.E-10	7.E-15	<0.0001	2.E-16	<0.0001	<0.0001	2.E-14	<0.0001

**Table H.1.3e. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7, 8-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8	HpCDF,1, 2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7, 8-	HxCDF, 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	NA	7.E-18	NA	1.E-13	5.E-15	NA	NA	4.E-12	NA	4.E-12	NA	3.E-12	6.E-12	2.E-11	2.E-12	4.E-11
<b>Single High End Parameter</b>																
Exposure Duration	NA	1.E-17	NA	3.E-13	1.E-14	NA	NA	7.E-12	NA	8.E-12	NA	5.E-12	1.E-11	4.E-11	3.E-12	7.E-11
Waste Concentration	5.E-12	7.E-18	3.E-12	4.E-13	5.E-15	6.E-13	5.E-12	6.E-12	3.E-11	2.E-11	2.E-12	9.E-12	6.E-12	2.E-10	NA	2.E-10
Child Soil Intake	NA	2.E-17	NA	4.E-13	1.E-14	NA	NA	1.E-11	NA	1.E-11	NA	8.E-12	2.E-11	5.E-11	5.E-12	1.E-10
Meteorological Location	NA	6.E-17	NA	1.E-12	4.E-14	NA	NA	3.E-11	NA	3.E-11	NA	2.E-11	5.E-11	1.E-10	1.E-11	3.E-10
Distance to Receptor	NA	3.E-17	NA	6.E-13	2.E-14	NA	NA	2.E-11	NA	2.E-11	NA	1.E-11	3.E-11	8.E-11	7.E-12	2.E-10
Waste Quantity	NA	2.E-17	NA	3.E-13	1.E-14	NA	NA	9.E-12	NA	9.E-12	NA	6.E-12	2.E-11	5.E-11	4.E-12	9.E-11
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	1.E-11	1.E-17	6.E-12	7.E-13	1.E-14	1.E-12	1.E-11	1.E-11	5.E-11	3.E-11	5.E-12	2.E-11	1.E-11	3.E-10	NA	5.E-10
Exposure Duration/Child Soil Intake	NA	4.E-17	NA	8.E-13	3.E-14	NA	NA	2.E-11	NA	2.E-11	NA	2.E-11	4.E-11	1.E-10	1.E-11	2.E-10
Exposure Duration/Met Location	NA	1.E-16	NA	2.E-12	9.E-14	NA	NA	6.E-11	NA	6.E-11	NA	4.E-11	1.E-10	3.E-10	3.E-11	6.E-10
Exposure Duration/Distance to Receptor	NA	6.E-17	NA	1.E-12	5.E-14	NA	NA	3.E-11	NA	3.E-11	NA	2.E-11	6.E-11	2.E-10	2.E-11	3.E-10
Exposure Duration/Waste Quantity	NA	4.E-17	NA	7.E-13	3.E-14	NA	NA	2.E-11	NA	2.E-11	NA	1.E-11	3.E-11	9.E-11	9.E-12	2.E-10
Waste Concentration/ Child Soil Intake	2.E-11	2.E-17	8.E-12	1.E-12	1.E-14	2.E-12	1.E-11	2.E-11	8.E-11	5.E-11	7.E-12	3.E-11	2.E-11	5.E-10	NA	7.E-10
Waste Concentration/Met Location	3.E-11	6.E-17	2.E-11	3.E-12	4.E-14	5.E-12	3.E-11	5.E-11	2.E-10	1.E-10	2.E-11	7.E-11	5.E-11	1.E-09	NA	2.E-09
Waste Concentration/Distance to Receptor	2.E-11	3.E-17	1.E-11	2.E-12	2.E-14	3.E-12	2.E-11	3.E-11	1.E-10	7.E-11	1.E-11	4.E-11	3.E-11	7.E-10	NA	1.E-09
Waste Concentration/Waste Quantity	1.E-11	2.E-17	7.E-12	9.E-13	1.E-14	2.E-12	1.E-11	2.E-11	7.E-11	4.E-11	6.E-12	2.E-11	2.E-11	4.E-10	NA	6.E-10
Child Soil Intake/Met Location	NA	2.E-16	NA	3.E-12	1.E-13	NA	NA	8.E-11	NA	9.E-11	NA	6.E-11	1.E-10	4.E-10	4.E-11	8.E-10
Child Soil Intake/Distance to Receptor	NA	9.E-17	NA	2.E-12	6.E-14	NA	NA	5.E-11	NA	5.E-11	NA	3.E-11	8.E-11	2.E-10	2.E-11	5.E-10
Child Soil Intake/Waste Quantity	NA	5.E-17	NA	9.E-13	4.E-14	NA	NA	3.E-11	NA	3.E-11	NA	2.E-11	4.E-11	1.E-10	1.E-11	3.E-10
Met Location/Distance to Receptor	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	1.E-10	NA	1.E-10	NA	9.E-11	2.E-10	6.E-10	5.E-11	1.E-09
Met Location/Waste Quantity	NA	2.E-16	NA	3.E-12	1.E-13	NA	NA	7.E-11	NA	7.E-11	NA	5.E-11	1.E-10	3.E-10	3.E-11	7.E-10
Distance to Receptor/Waste Quantity	NA	7.E-17	NA	1.E-12	5.E-14	NA	NA	4.E-11	NA	4.E-11	NA	3.E-11	6.E-11	2.E-10	2.E-11	4.E-10

**Table H.1.3f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Child of Farmer**

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
<b>Central Tendency</b>	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																	
Exposure Duration	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	6.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	6.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	5.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	8.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	3.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	2.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																	
Exposure Duration/Beef Intake	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	1.E-10	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Dairy Intake	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	1.E-10	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	4.E-17	<0.0001	6.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	6.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Fruit Intake	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	9.E-14	<0.0001	1.E-16	<0.0001	8.E-11	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	2.E-13	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	7.E-17	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Child Soil Intake	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	6.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	3.E-17	<0.0001	6.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	3.E-13	6.E-15	<0.0001	4.E-14	1.E-13	<0.0001	2.E-16	<0.0001	4.E-10	5.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	1.E-14	5.E-14	<0.0001	4.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/ Dairy Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	8.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/ Exposed Veg. Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	6.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Root Vegetable Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	6.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	6.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Waste Concentration	<0.0001	<0.0001	8.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Child Soil Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	6.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Met Location	<0.0001	<0.0001	2.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	6.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	4.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	1.E-10	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Exposed Vegetable Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	5.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Root Vegetable Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	5.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	6.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Waste Concentration	<0.0001	<0.0001	8.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Child Soil Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	5.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Met Location	<0.0001	<0.0001	2.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	5.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	3.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	1.E-10	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	1.E-13	2.E-15	<0.0001	1.E-14	5.E-14	<0.0001	6.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.3f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	1.E-13	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	5.E-17	<0.0001	8.E-11	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Child Soil Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Met Location	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	2.E-13	6.E-15	<0.0001	3.E-14	1.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Quantity	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	5.E-14	<0.0001	3.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	8.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Child Soil Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Met Location	<0.0001	<0.0001	2.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Concentration	<0.0001	<0.0001	3.E-13	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	1.E-16	<0.0001	1.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Child Soil Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Met Location	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	5.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	6.E-13	1.E-14	<0.0001	7.E-14	3.E-13	<0.0001	3.E-16	<0.0001	2.E-10	8.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Quantity	<0.0001	<0.0001	2.E-13	5.E-15	<0.0001	3.E-14	1.E-13	<0.0001	8.E-17	<0.0001	9.E-11	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/ Child Soil Intake	<0.0001	<0.0001	8.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	8.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	5.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	2.E-16	<0.0001	5.E-10	9.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	2.E-13	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	5.E-17	<0.0001	2.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Met Location	<0.0001	<0.0001	2.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	8.E-15	3.E-14	<0.0001	2.E-17	<0.0001	7.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	3.E-13	7.E-15	<0.0001	4.E-14	2.E-13	<0.0001	1.E-16	<0.0001	5.E-10	6.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001



**Table H.1.3f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Child of Farmer**

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
<b>Central Tendency</b>	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	3.E-08	0.005	9.E-09	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
<b>Single High End Parameter</b>																
Exposure Duration	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	6.E-08	0.005	2.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Beef Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	6.E-08	0.009	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Dairy Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	5.E-08	0.01	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Exposed Veg. Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-08	0.005	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Root Veg. Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	3.E-08	0.005	9.E-09	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.005	9.E-09	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Waste Concentration	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	9.E-09	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.001
Child Soil Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	3.E-08	0.005	9.E-09	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Meteorological Location	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	6.E-12	3.E-08	0.006	8.E-09	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.03	6.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.005
Waste Quantity	<0.0001	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	7.E-08	0.01	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.002
<b>Double High End Parameters</b>																
Exposure Duration/Beef Intake	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	1.E-07	0.009	4.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Dairy Intake	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	1.E-07	0.01	3.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Exposed Veg. Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	6.E-08	0.005	2.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.001
Exposure Duration/Root Veg. Intake	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	6.E-08	0.005	2.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Fruit Intake	<0.0001	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	6.E-08	0.005	2.E-08	5.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.001
Exposure Duration/Waste Concentration	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	5.E-11	8.E-08	0.005	2.E-08	1.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.001
Exposure Duration/Child Soil Intake	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	6.E-08	0.005	2.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Met Location	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	7.E-08	0.006	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Distance to Receptor	<0.0001	5.E-15	7.E-13	<0.0001	<0.0001	6.E-11	4.E-07	0.03	1.E-07	8.E-13	<0.0001	4.E-14	<0.0001	<0.0001	3.E-12	0.005
Exposure Duration/Waste Quantity	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.012	5.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.002
Beef Intake/ Dairy Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	8.E-08	0.013	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.002
Beef Intake/ Exposed Veg. Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	6.E-08	0.009	2.E-08	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Beef Intake/Root Vegetable Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	6.E-08	0.009	2.E-08	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Beef Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	6.E-08	0.009	2.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Beef Intake/Waste Concentration	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	8.E-08	0.01	2.E-08	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.002
Beef Intake/Child Soil Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	6.E-08	0.009	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Beef Intake/Met Location	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	6.E-12	6.E-08	0.012	2.E-08	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Beef Intake/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	4.E-07	0.06	1.E-07	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.01
Beef Intake/Waste Quantity	<0.0001	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	1.E-07	0.028	4.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.003
Dairy Intake/Exposed Vegetable Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	5.E-08	0.009	2.E-08	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Dairy Intake/Root Vegetable Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	5.E-08	0.009	2.E-08	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Dairy Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	5.E-08	0.009	2.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Dairy Intake/Waste Concentration	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	7.E-08	0.009	2.E-08	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.003
Dairy Intake/Child Soil Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	5.E-08	0.009	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Dairy Intake/Met Location	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	6.E-12	6.E-08	0.01	1.E-08	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Dairy Intake/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	3.E-07	0.05	1.E-07	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.01
Dairy Intake/Waste Quantity	<0.0001	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	1.E-07	0.024	4.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.004
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-08	0.005	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Exposed Veg. Intake/ Fruit Intake	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.005	9.E-09	3.E-13	<0.0001	2.E-14	<0.0001	<0.0001	9.E-13	0.001

**Table H.1.3f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chloroethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
Exposed Veg. Intake/Waste Concentration	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	4.E-11	4.E-08	0.005	9.E-09	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	9.E-13	0.001
Exposed Veg. Intake/Child Soil Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-08	0.005	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Exposed Veg. Intake/Met Location	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-08	0.006	8.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Exposed Veg. Intake/Distance to Receptor	<0.0001	4.E-15	7.E-13	<0.0001	<0.0001	6.E-11	2.E-07	0.03	6.E-08	7.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.005
Exposed Veg. Intake/Waste Quantity	<0.0001	2.E-15	2.E-13	<0.0001	<0.0001	2.E-11	7.E-08	0.012	2.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	7.E-13	0.002
Root Veg. Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.005	9.E-09	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Root Veg. Intake/Waste Concentration	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	9.E-09	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.001
Root Veg. Intake/Child Soil Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	3.E-08	0.005	9.E-09	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Root Veg. Intake/Met Location	<0.0001	4.E-16	7.E-14	<0.0001	<0.0001	6.E-12	3.E-08	0.006	8.E-09	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Root Veg. Intake/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.03	6.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.005
Root Veg. Intake/Waste Quantity	<0.0001	1.E-15	1.E-13	<0.0001	<0.0001	1.E-11	7.E-08	0.012	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.002
Fruit Intake/Waste Concentration	<0.0001	5.E-15	7.E-13	<0.0001	<0.0001	8.E-11	4.E-08	0.005	9.E-09	3.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.001
Fruit Intake/Child Soil Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.005	9.E-09	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Fruit Intake/Met Location	<0.0001	2.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.006	9.E-09	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	7.E-13	0.001
Fruit Intake/Distance to Receptor	<0.0001	9.E-15	1.E-12	<0.0001	<0.0001	1.E-10	2.E-07	0.03	6.E-08	2.E-12	<0.0001	8.E-14	<0.0001	<0.0001	5.E-12	0.01
Fruit Intake/Waste Quantity	<0.0001	4.E-15	5.E-13	<0.0001	<0.0001	5.E-11	7.E-08	0.012	2.E-08	7.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.003
Waste Concentration/ Child Soil Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	9.E-09	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.001
Waste Concentration/Met Location	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	3.E-11	5.E-08	0.007	8.E-09	8.E-14	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.001
Waste Concentration/Distance to Receptor	<0.0001	8.E-15	1.E-12	<0.0001	<0.0001	1.E-10	3.E-07	0.03	6.E-08	4.E-13	<0.0001	5.E-14	<0.0001	<0.0001	4.E-12	0.01
Waste Concentration/Waste Quantity	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	6.E-11	1.E-07	0.014	2.E-08	2.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.005
Child Soil Intake/Met Location	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	6.E-12	3.E-08	0.006	8.E-09	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Child Soil Intake/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.03	6.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.005
Child Soil Intake/Waste Quantity	<0.0001	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	7.E-08	0.012	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.002
Met Location/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.03	5.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.00
Met Location/Waste Quantity	<0.0001	1.E-15	1.E-13	<0.0001	<0.0001	1.E-11	8.E-08	0.016	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.002
Distance to Receptor/Waste Quantity	<0.0001	5.E-15	7.E-13	<0.0001	<0.0001	7.E-11	4.E-07	0.08	1.E-07	1.E-12	<0.0001	4.E-14	<0.0001	<0.0001	3.E-12	0.01

**Table H.1.3f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Child of Farmer**

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2,3, 4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
Central Tendency	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
<b>Single High End Parameter</b>																
Exposure Duration	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Beef Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake	NA	1.E-12	NA	6.E-10	9.E-11	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Exposed Veg. Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Root Veg. Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Fruit Intake	NA	7.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Waste Concentration	3.E-08	7.E-13	6.E-08	1.E-09	6.E-11	2.E-08	9.E-09	6.E-08	1.E-06	1.E-07	5.E-08	6.E-08	3.E-08	2.E-06	NA	3.E-06
Child Soil Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Meteorological Location	NA	6.E-13	NA	4.E-10	5.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	2.E-08	2.E-07	1.E-08	3.E-07
Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	8.E-08	2.E-06
Waste Quantity	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	6.E-08	4.E-07	3.E-08	7.E-07
<b>Double High End Parameters</b>																
Exposure Duration/Beef Intake	NA	3.E-12	NA	2.E-09	3.E-10	NA	NA	1.E-07	NA	1.E-07	NA	9.E-08	1.E-07	8.E-07	6.E-08	1.E-06
Exposure Duration/Dairy Intake	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	6.E-08	8.E-08	6.E-07	4.E-08	1.E-06
Exposure Duration/Exposed Veg. Intake	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	6.E-07
Exposure Duration/Root Veg. Intake	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Exposure Duration/Fruit Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	6.E-07
Exposure Duration/Waste Concentration	7.E-08	1.E-12	1.E-07	3.E-09	1.E-10	3.E-08	2.E-08	1.E-07	2.E-06	3.E-07	1.E-07	1.E-07	5.E-08	3.E-06	NA	6.E-06
Exposure Duration/Child Soil Intake	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Exposure Duration/Met Location	NA	1.E-12	NA	8.E-10	1.E-10	NA	NA	7.E-08	NA	5.E-08	NA	3.E-08	5.E-08	3.E-07	2.E-08	6.E-07
Exposure Duration/Distance to Receptor	NA	9.E-12	NA	6.E-09	7.E-10	NA	NA	5.E-07	NA	4.E-07	NA	2.E-07	3.E-07	2.E-06	2.E-07	4.E-06
Exposure Duration/Waste Quantity	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	1.E-07	9.E-07	7.E-08	2.E-06
Beef Intake/ Dairy Intake	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	9.E-08	NA	8.E-08	NA	5.E-08	7.E-08	5.E-07	4.E-08	8.E-07
Beef Intake/ Exposed Veg. Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Root Vegetable Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Fruit Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Waste Concentration	8.E-08	2.E-12	1.E-07	3.E-09	1.E-10	3.E-08	2.E-08	1.E-07	2.E-06	3.E-07	1.E-07	2.E-07	6.E-08	4.E-06	NA	7.E-06
Beef Intake/Child Soil Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Met Location	NA	2.E-12	NA	9.E-10	1.E-10	NA	NA	6.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Beef Intake/Distance to Receptor	NA	1.E-11	NA	6.E-09	8.E-10	NA	NA	4.E-07	NA	4.E-07	NA	3.E-07	4.E-07	3.E-06	2.E-07	4.E-06
Beef Intake/Waste Quantity	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	7.E-08	2.E-06
Dairy Intake/Exposed Vegetable Intake	NA	1.E-12	NA	6.E-10	9.E-11	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Dairy Intake/Root Vegetable Intake	NA	1.E-12	NA	6.E-10	9.E-11	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Dairy Intake/Fruit Intake	NA	1.E-12	NA	7.E-10	1.E-10	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Dairy Intake/Waste Concentration	5.E-08	1.E-12	1.E-07	2.E-09	9.E-11	2.E-08	2.E-08	1.E-07	2.E-06	2.E-07	8.E-08	1.E-07	4.E-08	2.E-06	NA	4.E-06
Dairy Intake/Child Soil Intake	NA	1.E-12	NA	6.E-10	9.E-11	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Dairy Intake/Met Location	NA	9.E-13	NA	6.E-10	8.E-11	NA	NA	5.E-08	NA	4.E-08	NA	3.E-08	4.E-08	2.E-07	2.E-08	4.E-07
Dairy Intake/Distance to Receptor	NA	6.E-12	NA	4.E-09	6.E-10	NA	NA	4.E-07	NA	3.E-07	NA	2.E-07	3.E-07	2.E-06	1.E-07	3.E-06
Dairy Intake/Waste Quantity	NA	2.E-12	NA	2.E-09	2.E-10	NA	NA	1.E-07	NA	1.E-07	NA	7.E-08	1.E-07	7.E-07	5.E-08	1.E-06
Exposed Veg. Intake/ Root Veg. Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Exposed Veg. Intake/ Fruit Intake	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07

**Table H.1.3f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Child of Farmer**

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2,3, 4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
Exposed Veg. Intake/Waste Concentration	3.E-08	7.E-13	7.E-08	1.E-09	6.E-11	2.E-08	9.E-09	6.E-08	<b>1.E-06</b>	1.E-07	5.E-08	6.E-08	3.E-08	<b>2.E-06</b>	NA	<b>3.E-06</b>
Exposed Veg. Intake/Child Soil Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Exposed Veg. Intake/Met Location	NA	6.E-13	NA	4.E-10	5.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	2.E-08	2.E-07	1.E-08	3.E-07
Exposed Veg. Intake/Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	8.E-08	<b>2.E-06</b>
Exposed Veg. Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Root Veg. Intake/Fruit Intake	NA	7.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Root Veg. Intake/Waste Concentration	3.E-08	7.E-13	6.E-08	1.E-09	6.E-11	2.E-08	9.E-09	6.E-08	<b>1.E-06</b>	1.E-07	5.E-08	6.E-08	3.E-08	<b>2.E-06</b>	NA	<b>3.E-06</b>
Root Veg. Intake/Child Soil Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Root Veg. Intake/Met Location	NA	6.E-13	NA	4.E-10	5.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	2.E-08	2.E-07	1.E-08	3.E-07
Root Veg. Intake/Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	8.E-08	<b>2.E-06</b>
Root Veg. Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Fruit Intake/Waste Concentration	4.E-08	7.E-13	7.E-08	1.E-09	7.E-11	2.E-08	1.E-08	6.E-08	<b>1.E-06</b>	1.E-07	5.E-08	7.E-08	3.E-08	<b>2.E-06</b>	NA	<b>3.E-06</b>
Fruit Intake/Child Soil Intake	NA	7.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Fruit Intake/Met Location	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Fruit Intake/Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	8.E-08	<b>2.E-06</b>
Fruit Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	7.E-08	5.E-07	3.E-08	8.E-07
Waste Concentration/ Child Soil Intake	3.E-08	7.E-13	6.E-08	1.E-09	6.E-11	2.E-08	9.E-09	6.E-08	<b>1.E-06</b>	1.E-07	5.E-08	6.E-08	3.E-08	<b>2.E-06</b>	NA	<b>3.E-06</b>
Waste Concentration/Met Location	4.E-08	6.E-13	6.E-08	1.E-09	5.E-11	1.E-08	8.E-09	5.E-08	<b>9.E-07</b>	1.E-07	4.E-08	6.E-08	2.E-08	<b>1.E-06</b>	NA	<b>3.E-06</b>
Waste Concentration/Distance to Receptor	2.E-07	4.E-12	4.E-07	8.E-09	4.E-10	9.E-08	6.E-08	4.E-07	<b>6.E-06</b>	8.E-07	3.E-07	4.E-07	2.E-07	<b>1.E-05</b>	NA	<b>2.E-05</b>
Waste Concentration/Waste Quantity	9.E-08	2.E-12	2.E-07	3.E-09	1.E-10	4.E-08	2.E-08	1.E-07	<b>2.E-06</b>	3.E-07	1.E-07	2.E-07	6.E-08	<b>4.E-06</b>	NA	<b>7.E-06</b>
Child Soil Intake/Met Location	NA	6.E-13	NA	4.E-10	5.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	2.E-08	2.E-07	1.E-08	3.E-07
Child Soil Intake/Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	8.E-08	<b>2.E-06</b>
Child Soil Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Met Location/Distance to Receptor	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	1.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Met Location/Waste Quantity	NA	2.E-12	NA	9.E-10	1.E-10	NA	NA	8.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Distance to Receptor/Waste Quantity	NA	1.E-11	NA	6.E-09	8.E-10	NA	NA	5.E-07	NA	4.E-07	NA	3.E-07	4.E-07	<b>3.E-06</b>	2.E-07	<b>4.E-06</b>

**Table H.1.4a. Risk and Sensitivity Analysis for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
<b>Central Tendency</b>	<0.0001	<0.0001	3.E-17	4.E-19	<0.0001	8.E-18	2.E-17	<0.0001	2.E-20	<0.0001	9.E-16	8.E-15	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																	
Exposure Duration	<0.0001	<0.0001	9.E-17	1.E-18	<0.0001	3.E-17	7.E-17	<0.0001	8.E-20	<0.0001	3.E-15	3.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	9.E-17	4.E-19	<0.0001	8.E-18	2.E-17	<0.0001	6.E-20	<0.0001	2.E-15	3.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	6.E-17	8.E-19	<0.0001	2.E-17	5.E-17	<0.0001	4.E-20	<0.0001	2.E-14	1.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	2.E-16	2.E-18	<0.0001	5.E-17	1.E-16	<0.0001	1.E-19	<0.0001	4.E-15	5.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	6.E-17	9.E-19	<0.0001	2.E-17	5.E-17	<0.0001	3.E-20	<0.0001	2.E-15	2.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																	
Exposure Duration/Waste Concentration	<0.0001	<0.0001	3.E-16	1.E-18	<0.0001	3.E-17	7.E-17	<0.0001	2.E-19	<0.0001	8.E-15	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	5.E-17	2.E-16	<0.0001	1.E-19	<0.0001	7.E-14	5.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	5.E-16	7.E-18	<0.0001	2.E-16	4.E-16	<0.0001	5.E-19	<0.0001	1.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	6.E-17	2.E-16	<0.0001	1.E-19	<0.0001	7.E-15	7.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	2.E-16	9.E-19	<0.0001	2.E-17	5.E-17	<0.0001	1.E-19	<0.0001	6.E-14	5.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	6.E-16	2.E-18	<0.0001	5.E-17	1.E-16	<0.0001	4.E-19	<0.0001	1.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	2.E-16	1.E-18	<0.0001	2.E-17	5.E-17	<0.0001	9.E-20	<0.0001	6.E-15	8.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	3.E-16	5.E-18	<0.0001	9.E-17	3.E-16	<0.0001	2.E-19	<0.0001	9.E-14	8.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	1.E-16	2.E-18	<0.0001	4.E-17	1.E-16	<0.0001	6.E-20	<0.0001	5.E-14	4.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	3.E-16	5.E-18	<0.0001	1.E-16	3.E-16	<0.0001	2.E-19	<0.0001	9.E-15	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.4a. Risk and Sensitivity Analysis for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
<b>Central Tendency</b>	<0.0001	3.E-19	5.E-17	<0.0001	<0.0001	4.E-15	1.E-16	<0.0001	6.E-12	1.E-16	<0.0001	6.E-18	<0.0001	<0.0001	4.E-16	<0.0001
<b>Single High End Parameter</b>																
Exposure Duration	<0.0001	1.E-18	2.E-16	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	2.E-11	5.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Waste Concentration	<0.0001	1.E-18	2.E-16	<0.0001	<0.0001	2.E-14	1.E-16	<0.0001	6.E-12	2.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Meteorological Location	<0.0001	7.E-19	1.E-16	<0.0001	<0.0001	7.E-15	2.E-15	<0.0001	1.E-11	3.E-16	<0.0001	1.E-17	<0.0001	<0.0001	1.E-15	<0.0001
Distance to Receptor	<0.0001	2.E-18	3.E-16	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	4.E-11	9.E-16	<0.0001	4.E-17	<0.0001	<0.0001	2.E-15	<0.0001
Waste Quantity	<0.0001	8.E-19	1.E-16	<0.0001	<0.0001	9.E-15	3.E-16	<0.0001	2.E-11	4.E-16	<0.0001	1.E-17	<0.0001	<0.0001	9.E-16	<0.0001
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	<0.0001	4.E-18	5.E-16	<0.0001	<0.0001	5.E-14	5.E-16	<0.0001	2.E-11	5.E-16	<0.0001	5.E-17	<0.0001	<0.0001	4.E-15	<0.0001
Exposure Duration/Met Location	<0.0001	2.E-18	4.E-16	<0.0001	<0.0001	2.E-14	7.E-15	<0.0001	4.E-11	1.E-15	<0.0001	5.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	6.E-18	1.E-15	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-10	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	8.E-15	<0.0001
Exposure Duration/Waste Quantity	<0.0001	3.E-18	4.E-16	<0.0001	<0.0001	3.E-14	9.E-16	<0.0001	5.E-11	1.E-15	<0.0001	5.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Waste Concentration/Met Location	<0.0001	2.E-18	3.E-16	<0.0001	<0.0001	3.E-14	3.E-15	<0.0001	1.E-11	3.E-16	<0.0001	3.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	7.E-18	9.E-16	<0.0001	<0.0001	1.E-13	6.E-16	<0.0001	4.E-11	9.E-16	<0.0001	9.E-17	<0.0001	<0.0001	7.E-15	<0.0001
Waste Concentration/Waste Quantity	<0.0001	3.E-18	3.E-16	<0.0001	<0.0001	4.E-14	4.E-16	<0.0001	2.E-11	4.E-16	<0.0001	3.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Met Location/Distance to Receptor	<0.0001	4.E-18	6.E-16	<0.0001	<0.0001	4.E-14	9.E-15	<0.0001	6.E-11	2.E-15	<0.0001	8.E-17	<0.0001	<0.0001	6.E-15	<0.0001
Met Location/Waste Quantity	<0.0001	2.E-18	3.E-16	<0.0001	<0.0001	2.E-14	5.E-15	<0.0001	3.E-11	8.E-16	<0.0001	3.E-17	<0.0001	<0.0001	2.E-15	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	4.E-18	6.E-16	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	9.E-11	2.E-15	<0.0001	8.E-17	<0.0001	<0.0001	5.E-15	<0.0001

**Table H.1.4a. Risk and Sensitivity Analysis for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7 ,8,-	OCDF, 1,2,3,4,6,7 ,8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2 ,3,4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8	HpCDF,1, 2,3,4,6,7,8	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8, 9-	TEQ
<b>Central Tendency</b>	NA	2.E-18	NA	4.E-14	2.E-15	NA	NA	1.E-12	NA	1.E-12	NA	8.E-13	2.E-12	6.E-12	5.E-13	1.E-11
<b>Single High End Parameter</b>																
Exposure Duration	NA	7.E-18	NA	1.E-13	5.E-15	NA	NA	4.E-12	NA	4.E-12	NA	3.E-12	6.E-12	2.E-11	2.E-12	4.E-11
Waste Concentration	2.E-12	2.E-18	9.E-13	1.E-13	2.E-15	2.E-13	2.E-12	2.E-12	8.E-12	5.E-12	7.E-13	3.E-12	2.E-12	5.E-11	NA	8.E-11
Meteorological Location	NA	9.E-17	NA	2.E-12	6.E-14	NA	NA	4.E-11	NA	4.E-11	NA	3.E-11	6.E-11	2.E-10	2.E-11	4.E-10
Distance to Receptor	NA	1.E-17	NA	2.E-13	7.E-15	NA	NA	5.E-12	NA	5.E-12	NA	4.E-12	9.E-12	3.E-11	2.E-12	5.E-11
Waste Quantity	NA	6.E-18	NA	1.E-13	4.E-15	NA	NA	3.E-12	NA	3.E-12	NA	2.E-12	5.E-12	1.E-11	1.E-12	3.E-11
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	5.E-12	7.E-18	3.E-12	4.E-13	5.E-15	7.E-13	5.E-12	6.E-12	3.E-11	2.E-11	2.E-12	1.E-11	6.E-12	2.E-10	NA	3.E-10
Exposure Duration/Met Location	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	1.E-10	NA	1.E-10	NA	9.E-11	2.E-10	6.E-10	6.E-11	1.E-09
Exposure Duration/Distance to Receptor	NA	3.E-17	NA	6.E-13	2.E-14	NA	NA	2.E-11	NA	2.E-11	NA	1.E-11	3.E-11	9.E-11	8.E-12	2.E-10
Exposure Duration/Waste Quantity	NA	2.E-17	NA	3.E-13	1.E-14	NA	NA	1.E-11	NA	1.E-11	NA	7.E-12	2.E-11	5.E-11	4.E-12	1.E-10
Waste Concentration/Met Location	9.E-12	9.E-17	3.E-11	5.E-12	6.E-14	8.E-12	3.E-11	6.E-11	2.E-10	2.E-10	2.E-11	1.E-10	6.E-11	2.E-09	NA	2.E-09
Waste Concentration/Distance to Receptor	7.E-12	1.E-17	4.E-12	5.E-13	7.E-15	9.E-13	7.E-12	9.E-12	4.E-11	2.E-11	3.E-12	1.E-11	9.E-12	2.E-10	NA	3.E-10
Waste Concentration/Waste Quantity	4.E-12	6.E-18	2.E-12	3.E-13	4.E-15	5.E-13	4.E-12	5.E-12	2.E-11	1.E-11	2.E-12	7.E-12	5.E-12	1.E-10	NA	2.E-10
Met Location/Distance to Receptor	NA	4.E-16	NA	7.E-12	3.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	7.E-10	7.E-11	2.E-09
Met Location/Waste Quantity	NA	2.E-16	NA	4.E-12	2.E-13	NA	NA	9.E-11	NA	1.E-10	NA	7.E-11	1.E-10	4.E-10	4.E-11	9.E-10
Distance to Receptor/Waste Quantity	NA	2.E-17	NA	4.E-13	2.E-14	NA	NA	1.E-11	NA	1.E-11	NA	8.E-12	2.E-11	6.E-11	5.E-12	1.E-10

**Table H.1.4b. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimpre as High End Location  
(Tank, Non-Groundwater Deterministic), Gardener**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5	Ethylbenzene	Stryene	Benzyl alcohol	Cresol, p-
Central Tendency	<0.0001	<0.0001	6.E-15	1.E-16	<0.0001	8.E-16	3.E-15	<0.0001	3.E-18	<0.0001	5.E-13	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Single High End Parameter																		
Exposure Duration	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	2.E-15	7.E-15	<0.0001	6.E-18	<0.0001	8.E-13	1.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake	<0.0001	<0.0001	6.E-15	2.E-16	<0.0001	8.E-16	3.E-15	<0.0001	4.E-18	<0.0001	5.E-13	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake	<0.0001	<0.0001	2.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	2.E-14	2.E-16	<0.0001	8.E-16	3.E-15	<0.0001	1.E-17	<0.0001	1.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	1.E-15	6.E-15	<0.0001	5.E-18	<0.0001	6.E-13	8.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	4.E-14	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-12	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	1.E-14	4.E-16	<0.0001	2.E-15	7.E-15	<0.0001	5.E-18	<0.0001	1.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Double High End Parameters																		
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-12	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Fruit Intake	<0.0001	<0.0001	6.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	3.E-17	<0.0001	6.E-12	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	7.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	3.E-17	<0.0001	5.E-12	9.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	2.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	6.E-14	<0.0001	7.E-17	<0.0001	1.E-11	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-12	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	2.E-15	7.E-15	<0.0001	7.E-18	<0.0001	8.E-13	1.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	2.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	2.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	5.E-14	4.E-16	<0.0001	2.E-15	7.E-15	<0.0001	2.E-17	<0.0001	2.E-12	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Met Location	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	3.E-15	1.E-14	<0.0001	9.E-18	<0.0001	9.E-13	1.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	4.E-17	<0.0001	5.E-12	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Quantity	<0.0001	<0.0001	3.E-14	9.E-16	<0.0001	4.E-15	2.E-14	<0.0001	1.E-17	<0.0001	2.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	2.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	2.E-14	2.E-16	<0.0001	9.E-16	3.E-15	<0.0001	1.E-17	<0.0001	1.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Met Location	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	1.E-15	6.E-15	<0.0001	5.E-18	<0.0001	6.E-13	8.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	4.E-14	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-12	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Quantity	<0.0001	<0.0001	1.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	5.E-18	<0.0001	1.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Concentration	<0.0001	<0.0001	6.E-14	4.E-16	<0.0001	2.E-15	8.E-15	<0.0001	3.E-17	<0.0001	5.E-12	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Met Location	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	1.E-14	<0.0001	1.E-17	<0.0001	2.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	2.E-15	<0.0001	1.E-14	5.E-14	<0.0001	7.E-17	<0.0001	1.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Quantity	<0.0001	<0.0001	4.E-14	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-12	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	4.E-14	3.E-16	<0.0001	2.E-15	6.E-15	<0.0001	1.E-17	<0.0001	2.E-12	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	1.E-13	9.E-16	<0.0001	5.E-15	2.E-14	<0.0001	6.E-17	<0.0001	9.E-12	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	5.E-14	4.E-16	<0.0001	2.E-15	7.E-15	<0.0001	1.E-17	<0.0001	4.E-12	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	8.E-15	3.E-14	<0.0001	3.E-17	<0.0001	3.E-12	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	3.E-15	1.E-14	<0.0001	7.E-18	<0.0001	1.E-12	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	7.E-12	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001



**Table H.1.4b. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimpre as High End Location  
(Tank, Non-Groundwater Deterministic), Gardener**

6/25/99

High End Parameter(s)	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chloroethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis 1,2-	Dichloroethylene, trans 1,2-	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	1.E-16	2.E-14	<0.0001	<0.0001	1.E-12	3.E-12	<0.0001	3.E-11	2.E-14	<0.0001	9.E-16	<0.0001	<0.0001	5.E-14	<0.0001
<b>Single High End Parameter</b>															
Exposure Duration	3.E-16	5.E-14	<0.0001	<0.0001	5.E-12	1.E-11	<0.0001	1.E-10	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Exposed Veg. Intake	2.E-16	4.E-14	<0.0001	<0.0001	3.E-12	5.E-12	<0.0001	5.E-11	4.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Root Veg. Intake	1.E-16	2.E-14	<0.0001	<0.0001	1.E-12	3.E-12	<0.0001	4.E-11	2.E-14	<0.0001	9.E-16	<0.0001	<0.0001	6.E-14	<0.0001
Fruit Intake	3.E-16	4.E-14	<0.0001	<0.0001	3.E-12	1.E-11	<0.0001	9.E-11	5.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Waste Concentration	4.E-16	5.E-14	<0.0001	<0.0001	6.E-12	4.E-12	<0.0001	3.E-11	2.E-14	<0.0001	2.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Meteorological Location	2.E-16	3.E-14	<0.0001	<0.0001	3.E-12	2.E-12	<0.0001	4.E-11	3.E-14	<0.0001	1.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Distance to Receptor	6.E-16	1.E-13	<0.0001	<0.0001	9.E-12	2.E-11	<0.0001	2.E-10	1.E-13	<0.0001	6.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Waste Quantity	3.E-16	4.E-14	<0.0001	<0.0001	4.E-12	8.E-12	<0.0001	9.E-11	5.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
<b>Double High End Parameters</b>															
Exposure Duration/Exposed Veg. Intake	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	2.E-11	<0.0001	2.E-10	1.E-13	<0.0001	6.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Exposure Duration/Root Veg. Intake	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	1.E-11	<0.0001	1.E-10	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Exposure Duration/Fruit Intake	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	4.E-11	<0.0001	3.E-10	2.E-13	<0.0001	9.E-15	<0.0001	<0.0001	5.E-13	<0.0001
Exposure Duration/Waste Concentration	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	1.E-11	<0.0001	1.E-10	6.E-14	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	<0.0001
Exposure Duration/Met Location	7.E-16	1.E-13	<0.0001	<0.0001	8.E-12	7.E-12	<0.0001	1.E-10	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Exposure Duration/Distance to Receptor	2.E-15	3.E-13	<0.0001	<0.0001	3.E-11	7.E-11	<0.0001	7.E-10	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	<0.0001
Exposure Duration/Waste Quantity	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-11	<0.0001	3.E-10	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	2.E-16	4.E-14	<0.0001	<0.0001	3.E-12	5.E-12	<0.0001	6.E-11	4.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Exposed Veg. Intake/ Fruit Intake	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	1.E-11	<0.0001	1.E-10	7.E-14	<0.0001	4.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Exposed Veg. Intake/Waste Concentration	8.E-16	1.E-13	<0.0001	<0.0001	2.E-11	7.E-12	<0.0001	5.E-11	4.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Exposed Veg. Intake/Met Location	5.E-16	8.E-14	<0.0001	<0.0001	6.E-12	3.E-12	<0.0001	7.E-11	8.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Exposed Veg. Intake/Distance to Receptor	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-11	<0.0001	3.E-10	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	7.E-13	<0.0001
Exposed Veg. Intake/Waste Quantity	6.E-16	9.E-14	<0.0001	<0.0001	9.E-12	1.E-11	<0.0001	1.E-10	1.E-13	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Root Veg. Intake/Fruit Intake	3.E-16	4.E-14	<0.0001	<0.0001	4.E-12	1.E-11	<0.0001	1.E-10	5.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Root Veg. Intake/Waste Concentration	4.E-16	5.E-14	<0.0001	<0.0001	7.E-12	4.E-12	<0.0001	4.E-11	2.E-14	<0.0001	2.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Root Veg. Intake/Met Location	2.E-16	3.E-14	<0.0001	<0.0001	3.E-12	2.E-12	<0.0001	4.E-11	3.E-14	<0.0001	1.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Root Veg. Intake/Distance to Receptor	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	2.E-11	<0.0001	2.E-10	1.E-13	<0.0001	6.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Root Veg. Intake/Waste Quantity	3.E-16	4.E-14	<0.0001	<0.0001	4.E-12	8.E-12	<0.0001	1.E-10	5.E-14	<0.0001	2.E-15	<0.0001	<0.0001	1.E-13	<0.0001
Fruit Intake/Waste Concentration	1.E-15	1.E-13	<0.0001	<0.0001	2.E-11	1.E-11	<0.0001	9.E-11	5.E-14	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	<0.0001
Fruit Intake/Met Location	5.E-16	8.E-14	<0.0001	<0.0001	6.E-12	7.E-12	<0.0001	1.E-10	9.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Fruit Intake/Distance to Receptor	2.E-15	3.E-13	<0.0001	<0.0001	2.E-11	7.E-11	<0.0001	6.E-10	3.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	<0.0001
Fruit Intake/Waste Quantity	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	3.E-11	<0.0001	2.E-10	1.E-13	<0.0001	6.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Waste Concentration/Met Location	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-12	<0.0001	4.E-11	4.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	<0.0001
Waste Concentration/Distance to Receptor	2.E-15	3.E-13	<0.0001	<0.0001	4.E-11	3.E-11	<0.0001	2.E-10	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	1.E-12	<0.0001
Waste Concentration/Waste Quantity	9.E-16	1.E-13	<0.0001	<0.0001	2.E-11	1.E-11	<0.0001	9.E-11	5.E-14	<0.0001	5.E-15	<0.0001	<0.0001	4.E-13	<0.0001
Met Location/Distance to Receptor	1.E-15	2.E-13	<0.0001	<0.0001	1.E-11	1.E-11	<0.0001	2.E-10	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	<0.0001
Met Location/Waste Quantity	5.E-16	7.E-14	<0.0001	<0.0001	6.E-12	5.E-12	<0.0001	1.E-10	9.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	<0.0001
Distance to Receptor/Waste Quantity	2.E-15	2.E-13	<0.0001	<0.0001	2.E-11	5.E-11	<0.0001	5.E-10	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	<0.0001

**Table H.1.4b. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimpre as High End Location  
(Tank, Non-Groundwater Deterministic), Gardener**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6, 7,8,9-	HxCDF, 1,2,3,4,7, 8-	TCDF, 2,3,7,8-	HpCDF,1,2, 3,4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2, 3,4,6,7,8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	NA	7.E-15	NA	5.E-12	8.E-13	NA	NA	2.E-10	NA	7.E-11	NA	5.E-11	3.E-10	3.E-10	3.E-11	1.E-09
<b>Single High End Parameter</b>																
Exposure Duration	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Exposed Veg. Intake	NA	1.E-14	NA	8.E-12	1.E-12	NA	NA	3.E-10	NA	1.E-10	NA	7.E-11	5.E-10	5.E-10	5.E-11	2.E-09
Root Veg. Intake	NA	7.E-15	NA	5.E-12	8.E-13	NA	NA	2.E-10	NA	7.E-11	NA	5.E-11	3.E-10	3.E-10	3.E-11	1.E-09
Fruit Intake	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Waste Concentration	4.E-11	7.E-15	2.E-10	1.E-11	8.E-13	3.E-11	5.E-11	3.E-10	1.E-09	3.E-10	1.E-10	2.E-10	3.E-10	3.E-09	NA	6.E-09
Meteorological Location	NA	9.E-15	NA	8.E-12	1.E-12	NA	NA	3.E-10	NA	1.E-10	NA	9.E-11	5.E-10	6.E-10	6.E-11	2.E-09
Distance to Receptor	NA	4.E-14	NA	3.E-11	5.E-12	NA	NA	1.E-09	NA	4.E-10	NA	3.E-10	2.E-09	2.E-09	2.E-10	6.E-09
Waste Quantity	NA	2.E-14	NA	1.E-11	2.E-12	NA	NA	5.E-10	NA	2.E-10	NA	1.E-10	8.E-10	8.E-10	8.E-11	2.E-09
<b>Double High End Parameters</b>																
Exposure Duration/Exposed Veg. Intake	NA	4.E-14	NA	3.E-11	4.E-12	NA	NA	1.E-09	NA	4.E-10	NA	2.E-10	2.E-09	2.E-09	2.E-10	5.E-09
Exposure Duration/Root Veg. Intake	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Exposure Duration/Fruit Intake	NA	8.E-14	NA	6.E-11	8.E-12	NA	NA	2.E-09	NA	7.E-10	NA	5.E-10	4.E-09	4.E-09	3.E-10	1.E-08
Exposure Duration/Waste Concentration	1.E-10	2.E-14	5.E-10	5.E-11	3.E-12	1.E-10	2.E-10	1.E-09	5.E-09	1.E-09	4.E-10	6.E-10	1.E-09	1.E-08	NA	2.E-08
Exposure Duration/Met Location	NA	3.E-14	NA	3.E-11	3.E-12	NA	NA	9.E-10	NA	4.E-10	NA	3.E-10	2.E-09	2.E-09	2.E-10	5.E-09
Exposure Duration/Distance to Receptor	NA	1.E-13	NA	1.E-10	2.E-11	NA	NA	4.E-09	NA	1.E-09	NA	1.E-09	7.E-09	7.E-09	6.E-10	2.E-08
Exposure Duration/Waste Quantity	NA	6.E-14	NA	4.E-11	6.E-12	NA	NA	2.E-09	NA	6.E-10	NA	4.E-10	3.E-09	3.E-09	3.E-10	8.E-09
Exposed Veg. Intake/ Root Veg. Intake	NA	1.E-14	NA	8.E-12	1.E-12	NA	NA	3.E-10	NA	1.E-10	NA	7.E-11	5.E-10	5.E-10	5.E-11	2.E-09
Exposed Veg. Intake/ Fruit Intake	NA	3.E-14	NA	2.E-11	3.E-12	NA	NA	7.E-10	NA	3.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	4.E-09
Exposed Veg. Intake/Waste Concentration	7.E-11	1.E-14	2.E-10	2.E-11	1.E-12	5.E-11	8.E-11	5.E-10	2.E-09	5.E-10	2.E-10	3.E-10	5.E-10	5.E-09	NA	9.E-09
Exposed Veg. Intake/Met Location	NA	1.E-14	NA	1.E-11	2.E-12	NA	NA	4.E-10	NA	2.E-10	NA	1.E-10	7.E-10	9.E-10	8.E-11	2.E-09
Exposed Veg. Intake/Distance to Receptor	NA	7.E-14	NA	5.E-11	8.E-12	NA	NA	2.E-09	NA	7.E-10	NA	5.E-10	3.E-09	3.E-09	3.E-10	1.E-08
Exposed Veg. Intake/Waste Quantity	NA	3.E-14	NA	2.E-11	3.E-12	NA	NA	7.E-10	NA	3.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	4.E-09
Root Veg. Intake/Fruit Intake	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	6.E-10	NA	2.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	3.E-09
Root Veg. Intake/Waste Concentration	4.E-11	7.E-15	2.E-10	1.E-11	8.E-13	3.E-11	5.E-11	3.E-10	1.E-09	3.E-10	1.E-10	2.E-10	3.E-10	3.E-09	NA	6.E-09
Root Veg. Intake/Met Location	NA	9.E-15	NA	8.E-12	1.E-12	NA	NA	3.E-10	NA	1.E-10	NA	9.E-11	5.E-10	6.E-10	6.E-11	2.E-09
Root Veg. Intake/Distance to Receptor	NA	4.E-14	NA	3.E-11	5.E-12	NA	NA	1.E-09	NA	4.E-10	NA	3.E-10	2.E-09	2.E-09	2.E-10	6.E-09
Root Veg. Intake/Waste Quantity	NA	2.E-14	NA	1.E-11	2.E-12	NA	NA	5.E-10	NA	2.E-10	NA	1.E-10	8.E-10	8.E-10	8.E-11	2.E-09
Fruit Intake/Waste Concentration	1.E-10	2.E-14	5.E-10	5.E-11	3.E-12	1.E-10	2.E-10	1.E-09	5.E-09	1.E-09	4.E-10	6.E-10	1.E-09	1.E-08	NA	2.E-08
Fruit Intake/Met Location	NA	3.E-14	NA	2.E-11	3.E-12	NA	NA	8.E-10	NA	3.E-10	NA	2.E-10	1.E-09	2.E-09	1.E-10	5.E-09
Fruit Intake/Distance to Receptor	NA	2.E-13	NA	1.E-10	2.E-11	NA	NA	4.E-09	NA	1.E-09	NA	1.E-09	7.E-09	7.E-09	6.E-10	2.E-08
Fruit Intake/Waste Quantity	NA	6.E-14	NA	4.E-11	6.E-12	NA	NA	2.E-09	NA	6.E-10	NA	4.E-10	3.E-09	3.E-09	2.E-10	8.E-09
Waste Concentration/Met Location	3.E-11	9.E-15	2.E-10	2.E-11	1.E-12	5.E-11	1.E-10	5.E-10	2.E-09	6.E-10	2.E-10	3.E-10	5.E-10	5.E-09	NA	1.E-08
Waste Concentration/Distance to Receptor	3.E-10	4.E-14	1.E-09	1.E-10	5.E-12	2.E-10	3.E-10	2.E-09	9.E-09	2.E-09	8.E-10	1.E-09	2.E-09	2.E-08	NA	4.E-08
Waste Concentration/Waste Quantity	1.E-10	2.E-14	4.E-10	4.E-11	2.E-12	9.E-11	1.E-10	8.E-10	4.E-09	7.E-10	3.E-10	4.E-10	8.E-10	7.E-09	NA	1.E-08
Met Location/Distance to Receptor	NA	5.E-14	NA	5.E-11	6.E-12	NA	NA	2.E-09	NA	7.E-10	NA	5.E-10	3.E-09	3.E-09	3.E-10	9.E-09
Met Location/Waste Quantity	NA	2.E-14	NA	2.E-11	3.E-12	NA	NA	7.E-10	NA	3.E-10	NA	2.E-10	1.E-09	1.E-09	1.E-10	4.E-09
Distance to Receptor/Waste Quantity	NA	1.E-13	NA	8.E-11	1.E-11	NA	NA	3.E-09	NA	1.E-09	NA	7.E-10	5.E-09	5.E-09	4.E-10	1.E-08

**Table H.1.4c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachloroethanol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Stryrene	Benzyl alcohol	Cresol, p-
Central Tendency	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																		
Exposure Duration	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	6.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	8.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	3.E-17	<0.0001	4.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	4.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	1.E-13	8.E-16	<0.0001	4.E-15	2.E-14	<0.0001	5.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	6.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	4.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	1.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	2.E-17	<0.0001	9.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																		
Exposure Duration/Beef Intake	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	8.E-14	<0.0001	8.E-17	<0.0001	3.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Dairy Intake	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	8.E-14	<0.0001	8.E-17	<0.0001	4.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	3.E-13	8.E-15	<0.0001	4.E-14	2.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	1.E-13	4.E-15	<0.0001	2.E-14	8.E-14	<0.0001	8.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Fruit Intake	<0.0001	<0.0001	4.E-13	1.E-14	<0.0001	5.E-14	2.E-13	<0.0001	2.E-16	<0.0001	2.E-10	6.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	5.E-13	4.E-15	<0.0001	2.E-14	7.E-14	<0.0001	2.E-16	<0.0001	5.E-10	9.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	3.E-13	7.E-15	<0.0001	4.E-14	1.E-13	<0.0001	1.E-16	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	9.E-13	2.E-14	<0.0001	1.E-13	5.E-13	<0.0001	5.E-16	<0.0001	1.E-09	2.E-10	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	3.E-13	9.E-15	<0.0001	5.E-14	2.E-13	<0.0001	1.E-16	<0.0001	4.E-10	6.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/ Dairy Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	1.E-10	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/ Exposed Veg. Intake	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	3.E-17	<0.0001	7.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Root Vegetable Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	6.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	7.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Waste Concentration	<0.0001	<0.0001	1.E-13	8.E-16	<0.0001	4.E-15	2.E-14	<0.0001	5.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Met Location	<0.0001	<0.0001	6.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	7.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Distance to Receptor	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	1.E-13	<0.0001	1.E-16	<0.0001	4.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Exposed Vegetable Intake	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	3.E-17	<0.0001	8.E-11	9.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Root Vegetable Intake	<0.0001	<0.0001	3.E-14	7.E-16	<0.0001	4.E-15	2.E-14	<0.0001	2.E-17	<0.0001	8.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Waste Concentration	<0.0001	<0.0001	1.E-13	8.E-16	<0.0001	4.E-15	2.E-14	<0.0001	5.E-17	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Met Location	<0.0001	<0.0001	6.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	8.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Distance to Receptor	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	1.E-13	<0.0001	1.E-16	<0.0001	5.E-10	5.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	3.E-17	<0.0001	4.E-11	7.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	6.E-14	<0.0001	6.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	2.E-13	2.E-15	<0.0001	9.E-15	3.E-14	<0.0001	8.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.4c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Stryene	Benzyl alcohol	Cresol, p-
Exposed Veg. Intake/Met Location	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	4.E-17	<0.0001	4.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	4.E-13	1.E-14	<0.0001	5.E-14	2.E-13	<0.0001	2.E-16	<0.0001	2.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Quantity	<0.0001	<0.0001	1.E-13	4.E-15	<0.0001	2.E-14	8.E-14	<0.0001	4.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	1.E-13	8.E-16	<0.0001	4.E-15	2.E-14	<0.0001	5.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Met Location	<0.0001	<0.0001	6.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	4.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	2.E-13	5.E-15	<0.0001	2.E-14	1.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Quantity	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	9.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Concentration	<0.0001	<0.0001	3.E-13	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	1.E-16	<0.0001	1.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Met Location	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	8.E-14	<0.0001	7.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	6.E-13	1.E-14	<0.0001	7.E-14	3.E-13	<0.0001	3.E-16	<0.0001	3.E-10	8.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Quantity	<0.0001	<0.0001	2.E-13	5.E-15	<0.0001	3.E-14	1.E-13	<0.0001	8.E-17	<0.0001	1.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	2.E-13	2.E-15	<0.0001	8.E-15	3.E-14	<0.0001	6.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	7.E-13	5.E-15	<0.0001	3.E-14	1.E-13	<0.0001	3.E-16	<0.0001	6.E-10	1.E-10	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	2.E-13	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	7.E-17	<0.0001	3.E-10	5.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	3.E-13	8.E-15	<0.0001	4.E-14	2.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	1.E-13	4.E-15	<0.0001	2.E-14	7.E-14	<0.0001	3.E-17	<0.0001	9.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	4.E-13	1.E-14	<0.0001	5.E-14	2.E-13	<0.0001	1.E-16	<0.0001	5.E-10	7.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.4c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
<b>Central Tendency</b>	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	4.E-08	0.005	1.E-08	9.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.0007
<b>Single High End Parameter</b>															
Exposure Duration	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.005	5.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.0007
Beef intake	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	6.E-08	0.008	2.E-08	9.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.001
Dairy Intake	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	8.E-08	0.01	2.E-08	9.E-14	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.002
Exposed Veg. Intake	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	1.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.0007
Root Veg. Intake	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	4.E-08	0.005	1.E-08	9.E-14	<0.0001	4.E-15	<0.0001	<0.0001	3.E-13	0.0007
Fruit Intake	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	1.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.0007
Waste Concentration	2.E-15	2.E-13	<0.0001	<0.0001	3.E-11	5.E-08	0.005	1.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Meteorological Location	1.E-15	2.E-13	<0.0001	<0.0001	1.E-11	2.E-08	0.002	1.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.0008
Distance to Receptor	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	2.E-07	0.03	7.E-08	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.005
Waste Quantity	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	9.E-08	0.01	3.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.002
<b>Double High End Parameters</b>															
Exposure Duration/Beef Intake	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	3.E-07	0.008	9.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.001
Exposure Duration/Dairy Intake	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	4.E-07	0.01	1.E-07	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.002
Exposure Duration/Exposed Veg. Intake	5.E-15	9.E-13	<0.0001	<0.0001	8.E-11	2.E-07	0.005	5.E-08	9.E-13	<0.0001	4.E-14	<0.0001	<0.0001	2.E-12	0.0007
Exposure Duration/Root Veg. Intake	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.005	5.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.0007
Exposure Duration/Fruit Intake	7.E-15	1.E-12	<0.0001	<0.0001	9.E-11	2.E-07	0.005	5.E-08	1.E-12	<0.0001	6.E-14	<0.0001	<0.0001	4.E-12	0.0007
Exposure Duration/Waste Concentration	9.E-15	1.E-12	<0.0001	<0.0001	2.E-10	2.E-07	0.005	5.E-08	5.E-13	<0.0001	5.E-14	<0.0001	<0.0001	4.E-12	0.001
Exposure Duration/Met Location	5.E-15	8.E-13	<0.0001	<0.0001	6.E-11	1.E-07	0.002	5.E-08	8.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.0008
Exposure Duration/Distance to Receptor	2.E-14	2.E-12	<0.0001	<0.0001	2.E-10	1.E-06	0.03	3.E-07	3.E-12	<0.0001	1.E-13	<0.0001	<0.0001	8.E-12	0.005
Exposure Duration/Waste Quantity	6.E-15	9.E-13	<0.0001	<0.0001	9.E-11	4.E-07	0.01	1.E-07	1.E-12	<0.0001	5.E-14	<0.0001	<0.0001	3.E-12	0.002
Beef Intake/ Dairy Intake	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	1.E-07	0.01	3.E-08	9.E-14	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.002
Beef Intake/ Exposed Veg. Intake	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	6.E-08	0.008	2.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.001
Beef Intake/Root Vegetable Intake	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	6.E-08	0.008	2.E-08	9.E-14	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Beef Intake/Fruit Intake	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	6.E-08	0.008	2.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Beef Intake/Waste Concentration	2.E-15	2.E-13	<0.0001	<0.0001	3.E-11	9.E-08	0.009	2.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.002
Beef Intake/Met Location	1.E-15	2.E-13	<0.0001	<0.0001	1.E-11	4.E-08	0.003	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.001
Beef Intake/Distance to Receptor	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	4.E-07	0.05	1.E-07	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.006
Beef Intake/Waste Quantity	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	2.E-07	0.02	5.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.003
Dairy Intake/Exposed Vegetable Intake	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	8.E-08	0.01	2.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.002
Dairy Intake/Root Vegetable Intake	5.E-16	8.E-14	<0.0001	<0.0001	7.E-12	8.E-08	0.01	2.E-08	9.E-14	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.002
Dairy Intake/Fruit Intake	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	8.E-08	0.01	2.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.002
Dairy Intake/Waste Concentration	2.E-15	2.E-13	<0.0001	<0.0001	3.E-11	1.E-07	0.01	2.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.004
Dairy Intake/Met Location	1.E-15	2.E-13	<0.0001	<0.0001	1.E-11	5.E-08	0.004	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.002
Dairy Intake/Distance to Receptor	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	5.E-07	0.06	1.E-07	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.01
Dairy Intake/Waste Quantity	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	2.E-07	0.02	6.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	7.E-13	0.005
Exposed Veg. Intake/ Root Veg. Intake	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	1.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.0007
Exposed Veg. Intake/ Fruit Intake	2.E-15	3.E-13	<0.0001	<0.0001	3.E-11	4.E-08	0.005	1.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.0007
Exposed Veg. Intake/Waste Concentration	4.E-15	5.E-13	<0.0001	<0.0001	7.E-11	5.E-08	0.005	1.E-08	2.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.001

**Table H.1.4c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chloroethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
Exposed Veg. Intake/Met Location	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-08	0.002	1.E-08	4.E-13	<0.0001	1.E-14	<0.0001	<0.0001	1.E-12	0.0008
Exposed Veg. Intake/Distance to Receptor	7.E-15	1.E-12	<0.0001	<0.0001	1.E-10	2.E-07	0.03	7.E-08	1.E-12	<0.0001	5.E-14	<0.0001	<0.0001	3.E-12	0.005
Exposed Veg. Intake/Waste Quantity	3.E-15	4.E-13	<0.0001	<0.0001	4.E-11	9.E-08	0.01	3.E-08	5.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.002
Root Veg. Intake/Fruit Intake	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	1.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.0007
Root Veg. Intake/Waste Concentration	2.E-15	3.E-13	<0.0001	<0.0001	3.E-11	5.E-08	0.005	1.E-08	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Root Veg. Intake/Met Location	1.E-15	2.E-13	<0.0001	<0.0001	1.E-11	2.E-08	0.002	1.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.0008
Root Veg. Intake/Distance to Receptor	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	2.E-07	0.03	7.E-08	6.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.005
Root Veg. Intake/Waste Quantity	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	9.E-08	0.01	3.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.002
Fruit Intake/Waste Concentration	5.E-15	7.E-13	<0.0001	<0.0001	9.E-11	5.E-08	0.005	1.E-08	3.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.001
Fruit Intake/Met Location	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-08	0.002	1.E-08	5.E-13	<0.0001	2.E-14	<0.0001	<0.0001	2.E-12	0.0008
Fruit Intake/Distance to Receptor	9.E-15	1.E-12	<0.0001	<0.0001	1.E-10	2.E-07	0.03	7.E-08	2.E-12	<0.0001	8.E-14	<0.0001	<0.0001	5.E-12	0.005
Fruit Intake/Waste Quantity	4.E-15	5.E-13	<0.0001	<0.0001	5.E-11	9.E-08	0.01	3.E-08	7.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.002
Waste Concentration/Met Location	4.E-15	5.E-13	<0.0001	<0.0001	6.E-11	3.E-08	0.002	1.E-08	2.E-13	<0.0001	2.E-14	<0.0001	<0.0001	2.E-12	0.002
Waste Concentration/Distance to Receptor	1.E-14	2.E-12	<0.0001	<0.0001	2.E-10	3.E-07	0.03	7.E-08	6.E-13	<0.0001	7.E-14	<0.0001	<0.0001	5.E-12	0.01
Waste Concentration/Waste Quantity	5.E-15	6.E-13	<0.0001	<0.0001	8.E-11	1.E-07	0.01	3.E-08	3.E-13	<0.0001	2.E-14	<0.0001	<0.0001	2.E-12	0.005
Met Location/Distance to Receptor	6.E-15	9.E-13	<0.0001	<0.0001	7.E-11	1.E-07	0.01	6.E-08	1.E-12	<0.0001	4.E-14	<0.0001	<0.0001	3.E-12	0.005
Met Location/Waste Quantity	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	6.E-08	0.005	3.E-08	5.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.002
Distance to Receptor/Waste Quantity	8.E-15	1.E-12	<0.0001	<0.0001	1.E-10	5.E-07	0.06	2.E-07	1.E-12	<0.0001	6.E-14	<0.0001	<0.0001	4.E-12	0.01

**Table H.1.4c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8 ,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2,3 ,4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
<b>Single High End Parameter</b>																
Exposure Duration	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Beef Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake	NA	1.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Exposed Veg. Intake	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Root Veg. Intake	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Fruit Intake	NA	9.E-13	NA	6.E-10	8.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Waste Concentration	4.E-08	8.E-13	8.E-08	1.E-09	7.E-11	2.E-08	1.E-08	7.E-08	<b>1.E-06</b>	1.E-07	6.E-08	8.E-08	3.E-08	<b>2.E-06</b>	NA	<b>4.E-06</b>
Meteorological Location	NA	1.E-12	NA	7.E-10	9.E-11	NA	NA	5.E-08	NA	4.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	5.E-08	8.E-08	5.E-07	4.E-08	9.E-07
<b>Double High End Parameters</b>																
Exposure Duration/Beef Intake	NA	9.E-12	NA	5.E-09	7.E-10	NA	NA	4.E-07	NA	3.E-07	NA	2.E-07	3.E-07	<b>2.E-06</b>	1.E-07	<b>4.E-06</b>
Exposure Duration/Dairy Intake	NA	7.E-12	NA	5.E-09	6.E-10	NA	NA	4.E-07	NA	3.E-07	NA	2.E-07	3.E-07	<b>2.E-06</b>	1.E-07	<b>3.E-06</b>
Exposure Duration/Exposed Veg. Intake	NA	4.E-12	NA	3.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Exposure Duration/Root Veg. Intake	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Exposure Duration/Fruit Intake	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	7.E-08	<b>2.E-06</b>
Exposure Duration/Waste Concentration	2.E-07	4.E-12	4.E-07	7.E-09	3.E-10	9.E-08	5.E-08	3.E-07	<b>6.E-06</b>	7.E-07	3.E-07	4.E-07	2.E-07	<b>9.E-06</b>	NA	<b>2.E-05</b>
Exposure Duration/Met Location	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Exposure Duration/Distance to Receptor	NA	2.E-11	NA	2.E-08	2.E-09	NA	NA	1.E-06	NA	1.E-06	NA	7.E-07	1.E-06	<b>6.E-06</b>	5.E-07	<b>1.E-05</b>
Exposure Duration/Waste Quantity	NA	1.E-11	NA	6.E-09	8.E-10	NA	NA	5.E-07	NA	4.E-07	NA	3.E-07	4.E-07	<b>3.E-06</b>	2.E-07	<b>4.E-06</b>
Beef Intake/ Dairy Intake	NA	2.E-12	NA	2.E-09	2.E-10	NA	NA	1.E-07	NA	1.E-07	NA	7.E-08	9.E-08	6.E-07	5.E-08	<b>1.E-06</b>
Beef Intake/ Exposed Veg. Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Root Vegetable Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Fruit Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Waste Concentration	9.E-08	2.E-12	2.E-07	3.E-09	1.E-10	4.E-08	2.E-08	1.E-07	<b>2.E-06</b>	3.E-07	1.E-07	2.E-07	7.E-08	<b>4.E-06</b>	NA	<b>7.E-06</b>
Beef Intake/Met Location	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	6.E-08	8.E-08	6.E-07	4.E-08	<b>1.E-06</b>
Beef Intake/Distance to Receptor	NA	1.E-11	NA	7.E-09	9.E-10	NA	NA	5.E-07	NA	4.E-07	NA	3.E-07	4.E-07	<b>3.E-06</b>	2.E-07	<b>5.E-06</b>
Beef Intake/Waste Quantity	NA	5.E-12	NA	3.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	8.E-08	<b>2.E-06</b>
Dairy Intake/Exposed Vegetable Intake	NA	1.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake/Root Vegetable Intake	NA	1.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake/Fruit Intake	NA	1.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake/Waste Concentration	8.E-08	1.E-12	2.E-07	3.E-09	1.E-10	4.E-08	2.E-08	2.E-07	<b>2.E-06</b>	3.E-07	1.E-07	1.E-07	6.E-08	<b>4.E-06</b>	NA	<b>7.E-06</b>
Dairy Intake/Met Location	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	5.E-08	7.E-08	5.E-07	4.E-08	9.E-07
Dairy Intake/Distance to Receptor	NA	9.E-12	NA	6.E-09	8.E-10	NA	NA	6.E-07	NA	4.E-07	NA	3.E-07	4.E-07	<b>3.E-06</b>	2.E-07	<b>4.E-06</b>
Dairy Intake/Waste Quantity	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	1.E-07	<b>1.E-06</b>	8.E-08	<b>2.E-06</b>
Exposed Veg. Intake/ Root Veg. Intake	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Exposed Veg. Intake/ Fruit Intake	NA	9.E-13	NA	6.E-10	8.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	4.E-08	2.E-07	2.E-08	4.E-07
Exposed Veg. Intake/Waste Concentration	4.E-08	8.E-13	8.E-08	1.E-09	7.E-11	2.E-08	1.E-08	7.E-08	<b>1.E-06</b>	1.E-07	6.E-08	8.E-08	3.E-08	<b>2.E-06</b>	NA	<b>4.E-06</b>



**Table H.1.4c. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8 ,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2,3 ,4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
Exposed Veg. Intake/Met Location	NA	1.E-12	NA	7.E-10	9.E-11	NA	NA	5.E-08	NA	4.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Exposed Veg. Intake/Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Exposed Veg. Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	6.E-08	8.E-08	5.E-07	4.E-08	9.E-07
Root Veg. Intake/Fruit Intake	NA	9.E-13	NA	6.E-10	8.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Root Veg. Intake/Waste Concentration	4.E-08	8.E-13	8.E-08	1.E-09	7.E-11	2.E-08	1.E-08	7.E-08	<b>1.E-06</b>	1.E-07	6.E-08	8.E-08	3.E-08	<b>2.E-06</b>	NA	<b>4.E-06</b>
Root Veg. Intake/Met Location	NA	1.E-12	NA	7.E-10	9.E-11	NA	NA	5.E-08	NA	4.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Root Veg. Intake/Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Root Veg. Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	5.E-08	8.E-08	5.E-07	4.E-08	9.E-07
Fruit Intake/Waste Concentration	4.E-08	9.E-13	8.E-08	2.E-09	8.E-11	2.E-08	1.E-08	7.E-08	<b>1.E-06</b>	1.E-07	6.E-08	8.E-08	3.E-08	<b>2.E-06</b>	NA	<b>4.E-06</b>
Fruit Intake/Met Location	NA	1.E-12	NA	7.E-10	1.E-10	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Fruit Intake/Distance to Receptor	NA	6.E-12	NA	4.E-09	5.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	<b>1.E-06</b>	1.E-07	<b>2.E-06</b>
Fruit Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	6.E-08	9.E-08	5.E-07	4.E-08	9.E-07
Waste Concentration/Met Location	2.E-08	1.E-12	1.E-07	2.E-09	9.E-11	2.E-08	1.E-08	9.E-08	<b>1.E-06</b>	2.E-07	8.E-08	1.E-07	4.E-08	<b>2.E-06</b>	NA	<b>5.E-06</b>
Waste Concentration/Distance to Receptor	3.E-07	5.E-12	5.E-07	9.E-09	4.E-10	1.E-07	7.E-08	5.E-07	<b>7.E-06</b>	9.E-07	4.E-07	5.E-07	2.E-07	<b>1.E-05</b>	NA	<b>2.E-05</b>
Waste Concentration/Waste Quantity	1.E-07	2.E-12	2.E-07	4.E-09	2.E-10	4.E-08	3.E-08	2.E-07	<b>3.E-06</b>	4.E-07	1.E-07	2.E-07	8.E-08	<b>5.E-06</b>	NA	<b>9.E-06</b>
Met Location/Distance to Receptor	NA	6.E-12	NA	4.E-09	5.E-10	NA	NA	3.E-07	NA	3.E-07	NA	2.E-07	2.E-07	<b>2.E-06</b>	1.E-07	<b>3.E-06</b>
Met Location/Waste Quantity	NA	3.E-12	NA	2.E-09	2.E-10	NA	NA	1.E-07	NA	1.E-07	NA	7.E-08	1.E-07	7.E-07	5.E-08	<b>1.E-06</b>
Distance to Receptor/Waste Quantity	NA	1.E-11	NA	8.E-09	1.E-09	NA	NA	6.E-07	NA	5.E-07	NA	3.E-07	5.E-07	<b>3.E-06</b>	2.E-07	<b>5.E-06</b>



**Table H.1.4d. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Fisher**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloro ethylene	Diethyl phthalate	Pentachloro phenol*	Trichloro phenol, 2,4,6-	Cresol, o-	Trichloro phenol, 2,4,5-	Ethylbenzene	Stryene	Benzyl alcohol	Cresol, p-
Central Tendency	<0.0001	<0.0001	3.E-14	1.E-15	<0.0001	4.E-15	2.E-14	<0.0001	7.E-17	<0.0001	2.E-12	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Single High End Parameter																		
Exposure Duration	<0.0001	<0.0001	9.E-14	5.E-15	<0.0001	1.E-14	8.E-14	<0.0001	2.E-16	<0.0001	6.E-12	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake	<0.0001	<0.0001	9.E-14	4.E-15	<0.0001	1.E-14	7.E-14	<0.0001	2.E-16	<0.0001	5.E-12	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	1.E-13	1.E-15	<0.0001	4.E-15	2.E-14	<0.0001	2.E-16	<0.0001	5.E-12	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location	<0.0001	<0.0001	3.E-14	2.E-15	<0.0001	4.E-15	3.E-14	<0.0001	7.E-17	<0.0001	5.E-12	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	1.E-13	6.E-15	<0.0001	2.E-14	9.E-14	<0.0001	3.E-16	<0.0001	8.E-12	8.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	6.E-14	3.E-15	<0.0001	9.E-15	5.E-14	<0.0001	1.E-16	<0.0001	4.E-12	5.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Double High End Parameters																		
Exposure Duration/Fish Intake	<0.0001	<0.0001	3.E-13	1.E-14	<0.0001	4.E-14	2.E-13	<0.0001	8.E-16	<0.0001	2.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	3.E-13	5.E-15	<0.0001	1.E-14	8.E-14	<0.0001	7.E-16	<0.0001	2.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	1.E-13	6.E-15	<0.0001	1.E-14	9.E-14	<0.0001	2.E-16	<0.0001	2.E-11	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	4.E-13	2.E-14	<0.0001	5.E-14	3.E-13	<0.0001	8.E-16	<0.0001	3.E-11	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	2.E-13	1.E-14	<0.0001	3.E-14	2.E-13	<0.0001	4.E-16	<0.0001	1.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Waste Concentration	<0.0001	<0.0001	3.E-13	5.E-15	<0.0001	1.E-14	7.E-14	<0.0001	6.E-16	<0.0001	1.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Met Location	<0.0001	<0.0001	1.E-13	5.E-15	<0.0001	1.E-14	9.E-14	<0.0001	2.E-16	<0.0001	2.E-11	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Distance to Receptor	<0.0001	<0.0001	3.E-13	2.E-14	<0.0001	5.E-14	3.E-13	<0.0001	8.E-16	<0.0001	2.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Waste Quantity	<0.0001	<0.0001	2.E-13	1.E-14	<0.0001	3.E-14	2.E-13	<0.0001	3.E-16	<0.0001	1.E-11	1.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	1.E-13	2.E-15	<0.0001	4.E-15	3.E-14	<0.0001	2.E-16	<0.0001	1.E-11	7.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	4.E-13	6.E-15	<0.0001	2.E-14	9.E-14	<0.0001	7.E-16	<0.0001	2.E-11	3.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	9.E-15	5.E-14	<0.0001	3.E-16	<0.0001	1.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	1.E-13	6.E-15	<0.0001	2.E-14	1.E-13	<0.0001	2.E-16	<0.0001	2.E-11	8.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity/Met Location	<0.0001	<0.0001	8.E-14	4.E-15	<0.0001	1.E-14	6.E-14	<0.0001	1.E-16	<0.0001	1.E-11	5.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity/Distance to Receptor	<0.0001	<0.0001	2.E-13	1.E-14	<0.0001	3.E-14	2.E-13	<0.0001	4.E-16	<0.0001	2.E-11	2.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.4d. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location (Tank, Non-Groundwater Deterministic), Fisher**

6/25/99

High End Parameter(s)	Allyl chloride	Dichloro ethane, 1,2-	Chloro-benzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachloro benzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloro ethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
<b>Central Tendency</b>	2.E-15	2.E-13	<0.0001	<0.0001	1.E-12	4.E-14	<0.0001	6.E-09	9.E-14	<0.0001	4.E-14	<0.0001	<0.0001	2.E-13	0.001
<b>Single High End Parameter</b>															
Exposure Duration	8.E-15	6.E-13	<0.0001	<0.0001	5.E-12	1.E-13	<0.0001	2.E-08	3.E-13	<0.0001	1.E-13	<0.0001	<0.0001	8.E-13	0.001
Fish Intake	7.E-15	6.E-13	<0.0001	<0.0001	4.E-12	1.E-13	<0.0001	2.E-08	3.E-13	<0.0001	1.E-13	<0.0001	<0.0001	8.E-13	0.003
Waste Concentration	8.E-15	6.E-13	<0.0001	<0.0001	6.E-12	6.E-14	<0.0001	6.E-09	1.E-13	<0.0001	9.E-14	<0.0001	<0.0001	7.E-13	0.002
Met Location	3.E-15	2.E-13	<0.0001	<0.0001	2.E-12	1.E-13	<0.0001	2.E-08	1.E-13	<0.0001	4.E-14	<0.0001	<0.0001	4.E-13	0.001
Distance to Receptor	8.E-15	8.E-13	<0.0001	<0.0001	6.E-12	2.E-13	<0.0001	3.E-08	4.E-13	<0.0001	1.E-13	<0.0001	<0.0001	1.E-12	0.003
Waste Quantity	6.E-15	4.E-13	<0.0001	<0.0001	3.E-12	1.E-13	<0.0001	2.E-08	3.E-13	<0.0001	8.E-14	<0.0001	<0.0001	6.E-13	0.003
<b>Double High End Parameters</b>															
Exposure Duration/Fish Intake	2.E-14	2.E-12	<0.0001	<0.0001	1.E-11	4.E-13	<0.0001	6.E-08	1.E-12	<0.0001	4.E-13	<0.0001	<0.0001	3.E-12	0.003
Exposure Duration/Waste Concentration	3.E-14	2.E-12	<0.0001	<0.0001	2.E-11	2.E-13	<0.0001	2.E-08	3.E-13	<0.0001	3.E-13	<0.0001	<0.0001	2.E-12	0.002
Exposure Duration/Met Location	9.E-15	8.E-13	<0.0001	<0.0001	5.E-12	5.E-13	<0.0001	7.E-08	4.E-13	<0.0001	1.E-13	<0.0001	<0.0001	1.E-12	0.001
Exposure Duration/Distance to Receptor	3.E-14	3.E-12	<0.0001	<0.0001	2.E-11	7.E-13	<0.0001	9.E-08	1.E-12	<0.0001	4.E-13	<0.0001	<0.0001	4.E-12	0.003
Exposure Duration/Waste Quantity	2.E-14	1.E-12	<0.0001	<0.0001	1.E-11	4.E-13	<0.0001	5.E-08	9.E-13	<0.0001	3.E-13	<0.0001	<0.0001	2.E-12	0.003
Fish Intake/Waste Concentration	2.E-14	2.E-12	<0.0001	<0.0001	2.E-11	2.E-13	<0.0001	2.E-08	3.E-13	<0.0001	3.E-13	<0.0001	<0.0001	2.E-12	0.007
Fish Intake/Met Location	8.E-15	7.E-13	<0.0001	<0.0001	5.E-12	4.E-13	<0.0001	6.E-08	3.E-13	<0.0001	1.E-13	<0.0001	<0.0001	1.E-12	0.004
Fish Intake/Distance to Receptor	2.E-14	3.E-12	<0.0001	<0.0001	2.E-11	7.E-13	<0.0001	8.E-08	1.E-12	<0.0001	4.E-13	<0.0001	<0.0001	3.E-12	0.01
Fish Intake/Waste Quantity	2.E-14	1.E-12	<0.0001	<0.0001	1.E-11	3.E-13	<0.0001	5.E-08	8.E-13	<0.0001	3.E-13	<0.0001	<0.0001	2.E-12	0.008
Waste Concentration/Met Location	9.E-15	7.E-13	<0.0001	<0.0001	7.E-12	2.E-13	<0.0001	2.E-08	1.E-13	<0.0001	1.E-13	<0.0001	<0.0001	1.E-12	0.003
Waste Concentration/Distance to Receptor	3.E-14	2.E-12	<0.0001	<0.0001	3.E-11	3.E-13	<0.0001	3.E-08	4.E-13	<0.0001	3.E-13	<0.0001	<0.0001	3.E-12	0.008
Waste Concentration/Waste Quantity	2.E-14	1.E-12	<0.0001	<0.0001	2.E-11	2.E-13	<0.0001	2.E-08	3.E-13	<0.0001	2.E-13	<0.0001	<0.0001	2.E-12	0.006
Met Location/Distance to Receptor	9.E-15	9.E-13	<0.0001	<0.0001	6.E-12	6.E-13	<0.0001	8.E-08	4.E-13	<0.0001	1.E-13	<0.0001	<0.0001	1.E-12	0.005
Waste Quantity/Met Location	7.E-15	5.E-13	<0.0001	<0.0001	4.E-12	3.E-13	<0.0001	5.E-08	3.E-13	<0.0001	9.E-14	<0.0001	<0.0001	8.E-13	0.004
Waste Quantity/Distance to Receptor	2.E-14	2.E-12	<0.0001	<0.0001	1.E-11	5.E-13	<0.0001	6.E-08	1.E-12	<0.0001	2.E-13	<0.0001	<0.0001	2.E-12	0.009

**Table H.1.4d. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location (Tank, Non-Groundwater Deterministic), Fisher**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7,8,9-	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8,9-	HxCDD, 1,2,3,4,7,8	TCDF, 2,3,7,8-	HpCDF,1,2 ,3,4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2, 3,4,6,7,8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9-	TEQ
Central Tendency	NA	8.E-22	NA	7.E-16	5.E-19	NA	NA	2.E-14	NA	2.E-13	NA	1.E-13	3.E-14	8.E-13	7.E-14	1.E-12
Single High End Parameter																
Exposure Duration	NA	3.E-21	NA	2.E-15	2.E-18	NA	NA	6.E-14	NA	5.E-13	NA	4.E-13	1.E-13	3.E-12	2.E-13	4.E-12
Fish Intake	NA	2.E-21	NA	2.E-15	2.E-18	NA	NA	6.E-14	NA	5.E-13	NA	4.E-13	1.E-13	3.E-12	2.E-13	4.E-12
Waste Concentration	6.E-13	8.E-22	1.E-13	2.E-15	5.E-19	3.E-14	5.E-13	3.E-14	3.E-12	7.E-13	1.E-13	4.E-13	3.E-14	7.E-12	NA	1.E-11
Met Location	NA	5.E-21	NA	4.E-15	3.E-18	NA	NA	1.E-13	NA	1.E-12	NA	7.E-13	2.E-13	5.E-12	5.E-13	8.E-12
Distance to Receptor	NA	4.E-21	NA	3.E-15	3.E-18	NA	NA	9.E-14	NA	8.E-13	NA	6.E-13	2.E-13	4.E-12	4.E-13	6.E-12
Waste Quantity	NA	2.E-21	NA	2.E-15	1.E-18	NA	NA	5.E-14	NA	4.E-13	NA	3.E-13	8.E-14	2.E-12	2.E-13	3.E-12
Double High End Parameters																
Exposure Duration/Fish Intake	NA	8.E-21	NA	7.E-15	6.E-18	NA	NA	2.E-13	NA	2.E-12	NA	1.E-12	3.E-13	8.E-12	8.E-13	1.E-11
Exposure Duration/Waste Concentration	2.E-12	3.E-21	4.E-13	7.E-15	2.E-18	9.E-14	2.E-12	1.E-13	9.E-12	2.E-12	3.E-13	1.E-12	1.E-13	2.E-11	NA	4.E-11
Exposure Duration/Met Location	NA	2.E-20	NA	1.E-14	1.E-17	NA	NA	4.E-13	NA	3.E-12	NA	2.E-12	7.E-13	2.E-11	2.E-12	3.E-11
Exposure Duration/Distance to Receptor	NA	1.E-20	NA	1.E-14	9.E-18	NA	NA	3.E-13	NA	3.E-12	NA	2.E-12	5.E-13	1.E-11	1.E-12	2.E-11
Exposure Duration/Waste Quantity	NA	7.E-21	NA	6.E-15	5.E-18	NA	NA	2.E-13	NA	1.E-12	NA	1.E-12	3.E-13	7.E-12	6.E-13	1.E-11
Fish Intake/Waste Concentration	2.E-12	2.E-21	4.E-13	6.E-15	2.E-18	9.E-14	2.E-12	1.E-13	8.E-12	2.E-12	3.E-13	1.E-12	1.E-13	2.E-11	NA	4.E-11
Fish Intake/Met Location	NA	2.E-20	NA	1.E-14	1.E-17	NA	NA	4.E-13	NA	3.E-12	NA	2.E-12	6.E-13	2.E-11	1.E-12	2.E-11
Fish Intake/Distance to Receptor	NA	1.E-20	NA	1.E-14	8.E-18	NA	NA	3.E-13	NA	2.E-12	NA	2.E-12	5.E-13	1.E-11	1.E-12	2.E-11
Fish Intake/Waste Quantity	NA	6.E-21	NA	6.E-15	4.E-18	NA	NA	2.E-13	NA	1.E-12	NA	9.E-13	3.E-13	6.E-12	6.E-13	1.E-11
Waste Concentration/Met Location	1.E-12	5.E-21	8.E-13	1.E-14	3.E-18	2.E-13	3.E-12	2.E-13	2.E-11	4.E-12	7.E-13	3.E-12	2.E-13	4.E-11	NA	7.E-11
Waste Concentration/Distance to Receptor	3.E-12	4.E-21	6.E-13	1.E-14	3.E-18	1.E-13	2.E-12	2.E-13	1.E-11	3.E-12	5.E-13	2.E-12	2.E-13	3.E-11	NA	6.E-11
Waste Concentration/Waste Quantity	1.E-12	2.E-21	3.E-13	5.E-15	1.E-18	7.E-14	1.E-12	8.E-14	7.E-12	2.E-12	3.E-13	1.E-12	8.E-14	2.E-11	NA	3.E-11
Met Location/Distance to Receptor	NA	2.E-20	NA	2.E-14	1.E-17	NA	NA	5.E-13	NA	4.E-12	NA	3.E-12	8.E-13	2.E-11	2.E-12	3.E-11
Waste Quantity/Met Location	NA	1.E-20	NA	1.E-14	9.E-18	NA	NA	3.E-13	NA	3.E-12	NA	2.E-12	5.E-13	1.E-11	1.E-12	2.E-11
Waste Quantity/Distance to Receptor	NA	9.E-21	NA	8.E-15	6.E-18	NA	NA	2.E-13	NA	2.E-12	NA	1.E-12	4.E-13	9.E-12	8.E-13	1.E-11

**Table H.1.4e. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
<b>Central Tendency</b>	<0.0001	<0.0001	8.E-17	1.E-18	<0.0001	2.E-17	7.E-17	<0.0001	7.E-20	<0.0001	3.E-15	3.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																	
Exposure Duration	<0.0001	<0.0001	2.E-16	2.E-18	<0.0001	5.E-17	1.E-16	<0.0001	1.E-19	<0.0001	6.E-15	5.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	3.E-16	1.E-18	<0.0001	3.E-17	7.E-17	<0.0001	2.E-19	<0.0001	7.E-15	9.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	7.E-17	2.E-16	<0.0001	2.E-19	<0.0001	8.E-15	8.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	5.E-17	1.E-16	<0.0001	1.E-19	<0.0001	6.E-14	4.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	5.E-16	7.E-18	<0.0001	1.E-16	4.E-16	<0.0001	4.E-19	<0.0001	1.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	2.E-16	3.E-18	<0.0001	6.E-17	2.E-16	<0.0001	1.E-19	<0.0001	7.E-15	7.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																	
Exposure Duration/Waste Concentration	<0.0001	<0.0001	6.E-16	2.E-18	<0.0001	5.E-17	1.E-16	<0.0001	4.E-19	<0.0001	2.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Child Soil Intake	<0.0001	<0.0001	5.E-16	7.E-18	<0.0001	2.E-16	4.E-16	<0.0001	4.E-19	<0.0001	2.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	4.E-16	5.E-18	<0.0001	1.E-16	3.E-16	<0.0001	3.E-19	<0.0001	1.E-13	9.E-14	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	1.E-15	1.E-17	<0.0001	3.E-16	8.E-16	<0.0001	9.E-19	<0.0001	3.E-14	3.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	4.E-16	6.E-18	<0.0001	1.E-16	3.E-16	<0.0001	2.E-19	<0.0001	1.E-14	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/ Child Soil Intake	<0.0001	<0.0001	8.E-16	3.E-18	<0.0001	7.E-17	2.E-16	<0.0001	6.E-19	<0.0001	2.E-14	3.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	6.E-16	3.E-18	<0.0001	5.E-17	1.E-16	<0.0001	4.E-19	<0.0001	2.E-13	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	2.E-15	7.E-18	<0.0001	2.E-16	4.E-16	<0.0001	1.E-18	<0.0001	3.E-14	6.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	7.E-16	3.E-18	<0.0001	6.E-17	2.E-16	<0.0001	3.E-19	<0.0001	2.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Met Location	<0.0001	<0.0001	6.E-16	7.E-18	<0.0001	2.E-16	4.E-16	<0.0001	4.E-19	<0.0001	2.E-13	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Distance to Receptor	<0.0001	<0.0001	2.E-15	2.E-17	<0.0001	4.E-16	1.E-15	<0.0001	1.E-18	<0.0001	4.E-14	5.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Waste Quantity	<0.0001	<0.0001	6.E-16	8.E-18	<0.0001	2.E-16	5.E-16	<0.0001	3.E-19	<0.0001	2.E-14	2.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	1.E-15	1.E-17	<0.0001	3.E-16	8.E-16	<0.0001	8.E-19	<0.0001	3.E-13	3.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	4.E-16	6.E-18	<0.0001	1.E-16	3.E-16	<0.0001	2.E-19	<0.0001	2.E-13	1.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	1.E-15	2.E-17	<0.0001	3.E-16	9.E-16	<0.0001	6.E-19	<0.0001	3.E-14	4.E-13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.4e. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location (Tank, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	<0.0001	9.E-19	2.E-16	<0.0001	<0.0001	1.E-14	3.E-16	<0.0001	2.E-11	4.E-16	<0.0001	2.E-17	<0.0001	<0.0001	1.E-15	<0.0001
<b>Single High End Parameter</b>																
Exposure Duration	<0.0001	2.E-18	3.E-16	<0.0001	<0.0001	2.E-14	7.E-16	<0.0001	4.E-11	9.E-16	<0.0001	4.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Waste Concentration	<0.0001	3.E-18	5.E-16	<0.0001	<0.0001	5.E-14	4.E-16	<0.0001	2.E-11	5.E-16	<0.0001	5.E-17	<0.0001	<0.0001	4.E-15	<0.0001
Child Soil Intake	<0.0001	3.E-18	5.E-16	<0.0001	<0.0001	3.E-14	1.E-15	<0.0001	6.E-11	1.E-15	<0.0001	6.E-17	<0.0001	<0.0001	4.E-15	<0.0001
Meteorological Location	<0.0001	2.E-18	3.E-16	<0.0001	<0.0001	2.E-14	7.E-15	<0.0001	3.E-11	1.E-15	<0.0001	4.E-17	<0.0001	<0.0001	3.E-15	<0.0001
Distance to Receptor	<0.0001	6.E-18	9.E-16	<0.0001	<0.0001	7.E-14	1.E-15	<0.0001	1.E-10	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	7.E-15	<0.0001
Waste Quantity	<0.0001	2.E-18	4.E-16	<0.0001	<0.0001	3.E-14	8.E-16	<0.0001	5.E-11	1.E-15	<0.0001	4.E-17	<0.0001	<0.0001	3.E-15	<0.0001
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	<0.0001	7.E-18	1.E-15	<0.0001	<0.0001	1.E-13	9.E-16	<0.0001	4.E-11	1.E-15	<0.0001	1.E-16	<0.0001	<0.0001	7.E-15	<0.0001
Exposure Duration/Child Soil Intake	<0.0001	6.E-18	1.E-15	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-10	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	7.E-15	<0.0001
Exposure Duration/Met Location	<0.0001	4.E-18	7.E-16	<0.0001	<0.0001	5.E-14	1.E-14	<0.0001	7.E-11	2.E-15	<0.0001	9.E-17	<0.0001	<0.0001	7.E-15	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	1.E-17	2.E-15	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-10	6.E-15	<0.0001	2.E-16	<0.0001	<0.0001	2.E-14	<0.0001
Exposure Duration/Waste Quantity	<0.0001	5.E-18	7.E-16	<0.0001	<0.0001	6.E-14	2.E-15	<0.0001	1.E-10	3.E-15	<0.0001	9.E-17	<0.0001	<0.0001	6.E-15	<0.0001
Waste Concentration/ Child Soil Intake	<0.0001	1.E-17	1.E-15	<0.0001	<0.0001	2.E-13	1.E-15	<0.0001	6.E-11	1.E-15	<0.0001	1.E-16	<0.0001	<0.0001	1.E-14	<0.0001
Waste Concentration/Met Location	<0.0001	7.E-18	1.E-15	<0.0001	<0.0001	1.E-13	9.E-15	<0.0001	3.E-11	1.E-15	<0.0001	1.E-16	<0.0001	<0.0001	9.E-15	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	2.E-17	3.E-15	<0.0001	<0.0001	3.E-13	2.E-15	<0.0001	1.E-10	3.E-15	<0.0001	3.E-16	<0.0001	<0.0001	2.E-14	<0.0001
Waste Concentration/Waste Quantity	<0.0001	8.E-18	1.E-15	<0.0001	<0.0001	1.E-13	1.E-15	<0.0001	5.E-11	1.E-15	<0.0001	1.E-16	<0.0001	<0.0001	8.E-15	<0.0001
Child Soil Intake/Met Location	<0.0001	6.E-18	1.E-15	<0.0001	<0.0001	7.E-14	2.E-14	<0.0001	1.E-10	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	9.E-15	<0.0001
Child Soil Intake/Distance to Receptor	<0.0001	2.E-17	3.E-15	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	3.E-10	8.E-15	<0.0001	3.E-16	<0.0001	<0.0001	2.E-14	<0.0001
Child Soil Intake/Waste Quantity	<0.0001	7.E-18	1.E-15	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-10	4.E-15	<0.0001	1.E-16	<0.0001	<0.0001	9.E-15	<0.0001
Met Location/Distance to Receptor	<0.0001	1.E-17	2.E-15	<0.0001	<0.0001	1.E-13	3.E-14	<0.0001	2.E-10	5.E-15	<0.0001	2.E-16	<0.0001	<0.0001	2.E-14	<0.0001
Met Location/Waste Quantity	<0.0001	5.E-18	8.E-16	<0.0001	<0.0001	5.E-14	2.E-14	<0.0001	8.E-11	3.E-15	<0.0001	1.E-16	<0.0001	<0.0001	7.E-15	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	1.E-17	2.E-15	<0.0001	<0.0001	2.E-13	3.E-15	<0.0001	3.E-10	7.E-15	<0.0001	2.E-16	<0.0001	<0.0001	2.E-14	<0.0001

**Table H.1.4e. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location (Tank, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7, 8-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1, 2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
Central Tendency	NA	7.E-18	NA	1.E-13	5.E-15	NA	NA	4.E-12	NA	4.E-12	NA	3.E-12	6.E-12	2.E-11	2.E-12	4.E-11
Single High End Parameter																
Exposure Duration	NA	1.E-17	NA	3.E-13	1.E-14	NA	NA	7.E-12	NA	8.E-12	NA	5.E-12	1.E-11	4.E-11	3.E-12	7.E-11
Waste Concentration	5.E-12	7.E-18	3.E-12	4.E-13	5.E-15	6.E-13	5.E-12	6.E-12	3.E-11	2.E-11	2.E-12	9.E-12	6.E-12	2.E-10	NA	2.E-10
Child Soil Intake	NA	2.E-17	NA	4.E-13	1.E-14	NA	NA	1.E-11	NA	1.E-11	NA	8.E-12	2.E-11	5.E-11	5.E-12	1.E-10
Meteorological Location	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	1.E-10	NA	1.E-10	NA	8.E-11	2.E-10	5.E-10	5.E-11	1.E-09
Distance to Receptor	NA	3.E-17	NA	6.E-13	2.E-14	NA	NA	2.E-11	NA	2.E-11	NA	1.E-11	3.E-11	8.E-11	7.E-12	2.E-10
Waste Quantity	NA	2.E-17	NA	3.E-13	1.E-14	NA	NA	9.E-12	NA	9.E-12	NA	6.E-12	2.E-11	5.E-11	4.E-12	9.E-11
Double High End Parameters																
Exposure Duration/Waste Concentration	1.E-11	1.E-17	6.E-12	7.E-13	1.E-14	1.E-12	1.E-11	1.E-11	5.E-11	3.E-11	5.E-12	2.E-11	1.E-11	3.E-10	NA	5.E-10
Exposure Duration/Child Soil Intake	NA	4.E-17	NA	8.E-13	3.E-14	NA	NA	2.E-11	NA	2.E-11	NA	2.E-11	4.E-11	1.E-10	1.E-11	2.E-10
Exposure Duration/Met Location	NA	6.E-16	NA	1.E-11	4.E-13	NA	NA	2.E-10	NA	3.E-10	NA	2.E-10	4.E-10	1.E-09	1.E-10	2.E-09
Exposure Duration/Distance to Receptor	NA	6.E-17	NA	1.E-12	5.E-14	NA	NA	3.E-11	NA	3.E-11	NA	2.E-11	6.E-11	2.E-10	2.E-11	3.E-10
Exposure Duration/Waste Quantity	NA	4.E-17	NA	7.E-13	3.E-14	NA	NA	2.E-11	NA	2.E-11	NA	1.E-11	3.E-11	9.E-11	9.E-12	2.E-10
Waste Concentration/ Child Soil Intake	2.E-11	2.E-17	8.E-12	1.E-12	1.E-14	2.E-12	1.E-11	2.E-11	8.E-11	5.E-11	7.E-12	3.E-11	2.E-11	5.E-10	NA	7.E-10
Waste Concentration/Met Location	3.E-11	3.E-16	9.E-11	1.E-11	2.E-13	2.E-11	8.E-11	2.E-10	8.E-10	6.E-10	7.E-11	3.E-10	2.E-10	5.E-09	NA	7.E-09
Waste Concentration/Distance to Receptor	2.E-11	3.E-17	1.E-11	2.E-12	2.E-14	3.E-12	2.E-11	3.E-11	1.E-10	7.E-11	1.E-11	4.E-11	3.E-11	7.E-10	NA	1.E-09
Waste Concentration/Waste Quantity	1.E-11	2.E-17	7.E-12	9.E-13	1.E-14	2.E-12	1.E-11	2.E-11	7.E-11	4.E-11	6.E-12	2.E-11	2.E-11	4.E-10	NA	6.E-10
Child Soil Intake/Met Location	NA	8.E-16	NA	2.E-11	6.E-13	NA	NA	3.E-10	NA	4.E-10	NA	2.E-10	5.E-10	2.E-09	2.E-10	3.E-09
Child Soil Intake/Distance to Receptor	NA	9.E-17	NA	2.E-12	6.E-14	NA	NA	5.E-11	NA	5.E-11	NA	3.E-11	8.E-11	2.E-10	2.E-11	5.E-10
Child Soil Intake/Waste Quantity	NA	5.E-17	NA	9.E-13	4.E-14	NA	NA	3.E-11	NA	3.E-11	NA	2.E-11	4.E-11	1.E-10	1.E-11	3.E-10
Met Location/Distance to Receptor	NA	1.E-15	NA	2.E-11	8.E-13	NA	NA	5.E-10	NA	5.E-10	NA	4.E-10	8.E-10	2.E-09	2.E-10	5.E-09
Met Location/Waste Quantity	NA	7.E-16	NA	1.E-11	5.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	4.E-10	1.E-09	1.E-10	3.E-09
Distance to Receptor/Waste Quantity	NA	7.E-17	NA	1.E-12	5.E-14	NA	NA	4.E-11	NA	4.E-11	NA	3.E-11	6.E-11	2.E-10	2.E-11	4.E-10

**Table H.1.4f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
<b>Central Tendency</b>	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>																	
Exposure Duration	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	6.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	6.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	5.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	8.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	3.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Meteorological Location	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>																	
Exposure Duration/Beef Intake	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	1.E-10	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Dairy Intake	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	1.E-10	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	4.E-17	<0.0001	6.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	6.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Fruit Intake	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	9.E-14	<0.0001	1.E-16	<0.0001	8.E-11	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	2.E-13	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	7.E-17	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Child Soil Intake	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	3.E-17	<0.0001	6.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Met Location	<0.0001	<0.0001	8.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	6.E-11	8.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	3.E-13	6.E-15	<0.0001	4.E-14	1.E-13	<0.0001	2.E-16	<0.0001	4.E-10	5.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Quantity	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	1.E-14	5.E-14	<0.0001	4.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/ Dairy Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	8.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/ Exposed Veg. Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	6.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Root Vegetable Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	6.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	6.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Waste Concentration	<0.0001	<0.0001	8.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Child Soil Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	6.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Met Location	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	6.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	4.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Beef Intake/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	1.E-10	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Exposed Vegetable Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	5.E-11	6.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Root Vegetable Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	5.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	6.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Waste Concentration	<0.0001	<0.0001	8.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	1.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

**Table H.1.4f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Methylene chloride	Carbon disulfide	Bromoform	Bromodichloromethane	Methyl ethyl ketone	Trichloroethylene	Diethyl phthalate	Pentachlorophenol*	Trichlorophenol, 2,4,6-	Cresol, o-	Trichlorophenol, 2,4,5-	Ethylbenzene	Styrene	Benzyl alcohol
Dairy Intake/Child Soil Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	5.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Met Location	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	5.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	3.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Dairy Intake/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	1.E-10	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	1.E-13	2.E-15	<0.0001	1.E-14	5.E-14	<0.0001	6.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	1.E-13	1.E-15	<0.0001	6.E-15	2.E-14	<0.0001	5.E-17	<0.0001	8.E-11	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Child Soil Intake	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Met Location	<0.0001	<0.0001	7.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	3.E-17	<0.0001	3.E-11	5.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	2.E-13	6.E-15	<0.0001	3.E-14	1.E-13	<0.0001	1.E-16	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/Waste Quantity	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	5.E-14	<0.0001	3.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	8.E-14	6.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Child Soil Intake	<0.0001	<0.0001	2.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	1.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Met Location	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Root Veg. Intake/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Concentration	<0.0001	<0.0001	3.E-13	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	1.E-16	<0.0001	1.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Child Soil Intake	<0.0001	<0.0001	9.E-14	2.E-15	<0.0001	1.E-14	4.E-14	<0.0001	5.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Met Location	<0.0001	<0.0001	2.E-13	4.E-15	<0.0001	2.E-14	8.E-14	<0.0001	7.E-17	<0.0001	4.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	6.E-13	1.E-14	<0.0001	7.E-14	3.E-13	<0.0001	3.E-16	<0.0001	2.E-10	8.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Quantity	<0.0001	<0.0001	2.E-13	5.E-15	<0.0001	3.E-14	1.E-13	<0.0001	8.E-17	<0.0001	9.E-11	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/ Child Soil Intake	<0.0001	<0.0001	8.E-14	5.E-16	<0.0001	3.E-15	1.E-14	<0.0001	4.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Met Location	<0.0001	<0.0001	1.E-13	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	5.E-17	<0.0001	9.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	5.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	2.E-16	<0.0001	5.E-10	9.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Waste Concentration/Waste Quantity	<0.0001	<0.0001	2.E-13	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	5.E-17	<0.0001	2.E-10	4.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Met Location	<0.0001	<0.0001	4.E-14	1.E-15	<0.0001	5.E-15	2.E-14	<0.0001	2.E-17	<0.0001	3.E-11	4.E-12	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Distance to Receptor	<0.0001	<0.0001	1.E-13	3.E-15	<0.0001	2.E-14	7.E-14	<0.0001	8.E-17	<0.0001	2.E-10	3.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Child Soil Intake/Waste Quantity	<0.0001	<0.0001	5.E-14	1.E-15	<0.0001	7.E-15	3.E-14	<0.0001	2.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Distance to Receptor	<0.0001	<0.0001	2.E-13	6.E-15	<0.0001	3.E-14	1.E-13	<0.0001	9.E-17	<0.0001	2.E-10	2.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Met Location/Waste Quantity	<0.0001	<0.0001	9.E-14	3.E-15	<0.0001	1.E-14	5.E-14	<0.0001	2.E-17	<0.0001	8.E-11	1.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Distance to Receptor/Waste Quantity	<0.0001	<0.0001	3.E-13	7.E-15	<0.0001	4.E-14	2.E-13	<0.0001	1.E-16	<0.0001	5.E-10	6.E-11	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

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**Table H.1.4f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Farmer**

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High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
<b>Central Tendency</b>	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	3.E-08	0.005	9.E-09	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
<b>Single High End Parameter</b>																
Exposure Duration	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	6.E-08	0.005	2.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Beef intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	6.E-08	0.009	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Dairy Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	5.E-08	0.01	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Exposed Veg. Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-08	0.005	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Root Veg. Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	3.E-08	0.005	9.E-09	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.005	9.E-09	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Waste Concentration	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	9.E-09	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.001
Child Soil Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	3.E-08	0.005	9.E-09	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Meteorological Location	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	2.E-08	0.002	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	4.E-13	0.001
Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.03	6.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.005
Waste Quantity	<0.0001	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	7.E-08	0.01	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.002
<b>Double High End Parameters</b>																
Exposure Duration/Beef Intake	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	1.E-07	0.009	4.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Dairy Intake	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	1.E-07	0.01	3.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Exposed Veg. Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	6.E-08	0.005	2.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	6.E-13	0.001
Exposure Duration/Root Veg. Intake	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	6.E-08	0.005	2.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Fruit Intake	<0.0001	3.E-15	5.E-13	<0.0001	<0.0001	4.E-11	6.E-08	0.005	2.E-08	5.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.001
Exposure Duration/Waste Concentration	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	5.E-11	8.E-08	0.005	2.E-08	1.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.001
Exposure Duration/Child Soil Intake	<0.0001	8.E-16	1.E-13	<0.0001	<0.0001	1.E-11	6.E-08	0.005	2.E-08	1.E-13	<0.0001	7.E-15	<0.0001	<0.0001	4.E-13	0.001
Exposure Duration/Met Location	<0.0001	2.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.0017	2.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Exposure Duration/Distance to Receptor	<0.0001	5.E-15	7.E-13	<0.0001	<0.0001	6.E-11	4.E-07	0.03	1.E-07	8.E-13	<0.0001	4.E-14	<0.0001	<0.0001	3.E-12	0.005
Exposure Duration/Waste Quantity	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.012	5.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.002
Beef Intake/ Dairy Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	8.E-08	0.013	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.002
Beef Intake/ Exposed Veg. Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	6.E-08	0.009	2.E-08	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Beef Intake/Root Vegetable Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	6.E-08	0.009	2.E-08	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Beef Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	6.E-08	0.009	2.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Beef Intake/Waste Concentration	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	8.E-08	0.01	2.E-08	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.002
Beef Intake/Child Soil Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	6.E-08	0.009	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Beef Intake/Met Location	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	4.E-08	0.004	2.E-08	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	4.E-13	0.001
Beef Intake/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	4.E-07	0.06	1.E-07	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.01
Beef Intake/Waste Quantity	<0.0001	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	1.E-07	0.028	4.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.003
Dairy Intake/Exposed Vegetable Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	5.E-08	0.009	2.E-08	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Dairy Intake/Root Vegetable Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	5.E-08	0.009	2.E-08	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Dairy Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	5.E-08	0.009	2.E-08	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Dairy Intake/Waste Concentration	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	7.E-08	0.009	2.E-08	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.003

**Table H.1.4f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	Cresol, p-	Allyl chloride	Dichloroethane, 1,2-	Chlorobenzene	Phenol	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl)phthalate	Di-n-octyl phthalate	Hexachlorobenzene	Chlorodibromomethane	Chloro-1,3-butadiene, 2-	Tetrachloroethylene	Dichloroethylene, cis-1,2-	Dichloroethylene, trans-1,2-	Bis (2-chloroisopropyl) ether	Mercury
Dairy Intake/Child Soil Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	5.E-08	0.009	2.E-08	6.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Dairy Intake/Met Location	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	3.E-08	0.0037	2.E-08	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	4.E-13	0.002
Dairy Intake/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	3.E-07	0.05	1.E-07	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.01
Dairy Intake/Waste Quantity	<0.0001	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	1.E-07	0.024	4.E-08	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	5.E-13	0.004
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-08	0.005	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Exposed Veg. Intake/ Fruit Intake	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.005	9.E-09	3.E-13	<0.0001	2.E-14	<0.0001	<0.0001	9.E-13	0.001
Exposed Veg. Intake/Waste Concentration	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	4.E-11	4.E-08	0.005	9.E-09	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	9.E-13	0.001
Exposed Veg. Intake/Child Soil Intake	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	1.E-11	3.E-08	0.005	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	3.E-13	0.001
Exposed Veg. Intake/Met Location	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	2.E-08	0.0017	9.E-09	2.E-13	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.001
Exposed Veg. Intake/Distance to Receptor	<0.0001	4.E-15	7.E-13	<0.0001	<0.0001	6.E-11	2.E-07	0.03	6.E-08	7.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.005
Exposed Veg. Intake/Waste Quantity	<0.0001	2.E-15	2.E-13	<0.0001	<0.0001	2.E-11	7.E-08	0.012	2.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	7.E-13	0.002
Root Veg. Intake/Fruit Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.005	9.E-09	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Root Veg. Intake/Waste Concentration	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	9.E-09	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.001
Root Veg. Intake/Child Soil Intake	<0.0001	4.E-16	6.E-14	<0.0001	<0.0001	5.E-12	3.E-08	0.005	9.E-09	7.E-14	<0.0001	3.E-15	<0.0001	<0.0001	2.E-13	0.001
Root Veg. Intake/Met Location	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	2.E-08	0.0017	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	4.E-13	0.001
Root Veg. Intake/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.03	6.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.005
Root Veg. Intake/Waste Quantity	<0.0001	1.E-15	1.E-13	<0.0001	<0.0001	1.E-11	7.E-08	0.012	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.002
Fruit Intake/Waste Concentration	<0.0001	5.E-15	7.E-13	<0.0001	<0.0001	8.E-11	4.E-08	0.005	9.E-09	3.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.001
Fruit Intake/Child Soil Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	3.E-08	0.005	9.E-09	2.E-13	<0.0001	1.E-14	<0.0001	<0.0001	8.E-13	0.001
Fruit Intake/Met Location	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-08	0.0017	9.E-09	5.E-13	<0.0001	2.E-14	<0.0001	<0.0001	2.E-12	0.001
Fruit Intake/Distance to Receptor	<0.0001	9.E-15	1.E-12	<0.0001	<0.0001	1.E-10	2.E-07	0.03	6.E-08	2.E-12	<0.0001	8.E-14	<0.0001	<0.0001	5.E-12	0.01
Fruit Intake/Waste Quantity	<0.0001	4.E-15	5.E-13	<0.0001	<0.0001	5.E-11	7.E-08	0.012	2.E-08	7.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.003
Waste Concentration/ Child Soil Intake	<0.0001	1.E-15	2.E-13	<0.0001	<0.0001	2.E-11	4.E-08	0.005	9.E-09	7.E-14	<0.0001	8.E-15	<0.0001	<0.0001	6.E-13	0.001
Waste Concentration/Met Location	<0.0001	3.E-15	3.E-13	<0.0001	<0.0001	4.E-11	3.E-08	0.0018	9.E-09	1.E-13	<0.0001	1.E-14	<0.0001	<0.0001	1.E-12	0.002
Waste Concentration/Distance to Receptor	<0.0001	8.E-15	1.E-12	<0.0001	<0.0001	1.E-10	3.E-07	0.03	6.E-08	4.E-13	<0.0001	5.E-14	<0.0001	<0.0001	4.E-12	0.01
Waste Concentration/Waste Quantity	<0.0001	3.E-15	4.E-13	<0.0001	<0.0001	6.E-11	1.E-07	0.014	2.E-08	2.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.005
Child Soil Intake/Met Location	<0.0001	7.E-16	1.E-13	<0.0001	<0.0001	9.E-12	2.E-08	0.0017	9.E-09	1.E-13	<0.0001	5.E-15	<0.0001	<0.0001	4.E-13	0.001
Child Soil Intake/Distance to Receptor	<0.0001	2.E-15	4.E-13	<0.0001	<0.0001	3.E-11	2.E-07	0.03	6.E-08	4.E-13	<0.0001	2.E-14	<0.0001	<0.0001	1.E-12	0.005
Child Soil Intake/Waste Quantity	<0.0001	9.E-16	1.E-13	<0.0001	<0.0001	1.E-11	7.E-08	0.012	2.E-08	2.E-13	<0.0001	7.E-15	<0.0001	<0.0001	5.E-13	0.002
Met Location/Distance to Receptor	<0.0001	4.E-15	6.E-13	<0.0001	<0.0001	5.E-11	1.E-07	0.011	5.E-08	7.E-13	<0.0001	3.E-14	<0.0001	<0.0001	2.E-12	0.01
Met Location/Waste Quantity	<0.0001	2.E-15	3.E-13	<0.0001	<0.0001	2.E-11	5.E-08	0.005	2.E-08	3.E-13	<0.0001	1.E-14	<0.0001	<0.0001	9.E-13	0.003
Distance to Receptor/Waste Quantity	<0.0001	5.E-15	7.E-13	<0.0001	<0.0001	7.E-11	4.E-07	0.08	1.E-07	1.E-12	<0.0001	4.E-14	<0.0001	<0.0001	3.E-12	0.01

**Table H.1.4f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Farmer**

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High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3 ,4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2,3, 4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
<b>Single High End Parameter</b>																
Exposure Duration	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Beef Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Dairy Intake	NA	1.E-12	NA	6.E-10	9.E-11	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Exposed Veg. Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Root Veg. Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Fruit Intake	NA	7.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Waste Concentration	3.E-08	7.E-13	6.E-08	1.E-09	6.E-11	2.E-08	9.E-09	6.E-08	1.E-06	1.E-07	5.E-08	6.E-08	3.E-08	2.E-06	NA	3.E-06
Child Soil Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Meteorological Location	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	4.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	8.E-08	2.E-06
Waste Quantity	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	6.E-08	4.E-07	3.E-08	7.E-07
<b>Double High End Parameters</b>																
Exposure Duration/Beef Intake	NA	3.E-12	NA	2.E-09	3.E-10	NA	NA	1.E-07	NA	1.E-07	NA	9.E-08	1.E-07	8.E-07	6.E-08	1.E-06
Exposure Duration/Dairy Intake	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	6.E-08	8.E-08	6.E-07	4.E-08	1.E-06
Exposure Duration/Exposed Veg. Intake	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	6.E-07
Exposure Duration/Root Veg. Intake	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Exposure Duration/Fruit Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	8.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	6.E-07
Exposure Duration/Waste Concentration	7.E-08	1.E-12	1.E-07	3.E-09	1.E-10	3.E-08	2.E-08	1.E-07	2.E-06	3.E-07	1.E-07	1.E-07	5.E-08	3.E-06	NA	6.E-06
Exposure Duration/Child Soil Intake	NA	1.E-12	NA	9.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Exposure Duration/Met Location	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	9.E-08	NA	8.E-08	NA	5.E-08	7.E-08	5.E-07	3.E-08	8.E-07
Exposure Duration/Distance to Receptor	NA	9.E-12	NA	6.E-09	7.E-10	NA	NA	5.E-07	NA	4.E-07	NA	2.E-07	3.E-07	2.E-06	2.E-07	4.E-06
Exposure Duration/Waste Quantity	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	1.E-07	9.E-07	7.E-08	2.E-06
Beef Intake/ Dairy Intake	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	9.E-08	NA	8.E-08	NA	5.E-08	7.E-08	5.E-07	4.E-08	8.E-07
Beef Intake/ Exposed Veg. Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Root Vegetable Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Fruit Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Waste Concentration	8.E-08	2.E-12	1.E-07	3.E-09	1.E-10	3.E-08	2.E-08	1.E-07	2.E-06	3.E-07	1.E-07	2.E-07	6.E-08	4.E-06	NA	7.E-06
Beef Intake/Child Soil Intake	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Beef Intake/Met Location	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	9.E-08	NA	8.E-08	NA	6.E-08	8.E-08	5.E-07	4.E-08	9.E-07
Beef Intake/Distance to Receptor	NA	1.E-11	NA	6.E-09	8.E-10	NA	NA	4.E-07	NA	4.E-07	NA	3.E-07	4.E-07	3.E-06	2.E-07	4.E-06
Beef Intake/Waste Quantity	NA	4.E-12	NA	2.E-09	3.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	7.E-08	2.E-06
Dairy Intake/Exposed Vegetable Intake	NA	1.E-12	NA	6.E-10	9.E-11	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Dairy Intake/Root Vegetable Intake	NA	1.E-12	NA	6.E-10	9.E-11	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Dairy Intake/Fruit Intake	NA	1.E-12	NA	7.E-10	1.E-10	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Dairy Intake/Waste Concentration	5.E-08	1.E-12	1.E-07	2.E-09	9.E-11	2.E-08	2.E-08	1.E-07	2.E-06	2.E-07	8.E-08	1.E-07	4.E-08	2.E-06	NA	4.E-06

**Table H.1.4f. Risk and Sensitivity Analysis Results for Ingestion Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3 ,4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2,3, 4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
Dairy Intake/Child Soil Intake	NA	1.E-12	NA	6.E-10	9.E-11	NA	NA	6.E-08	NA	5.E-08	NA	3.E-08	4.E-08	3.E-07	2.E-08	5.E-07
Dairy Intake/Met Location	NA	1.E-12	NA	8.E-10	1.E-10	NA	NA	7.E-08	NA	6.E-08	NA	4.E-08	5.E-08	4.E-07	3.E-08	6.E-07
Dairy Intake/Distance to Receptor	NA	6.E-12	NA	4.E-09	6.E-10	NA	NA	4.E-07	NA	3.E-07	NA	2.E-07	3.E-07	2.E-06	1.E-07	3.E-06
Dairy Intake/Waste Quantity	NA	2.E-12	NA	2.E-09	2.E-10	NA	NA	1.E-07	NA	1.E-07	NA	7.E-08	1.E-07	7.E-07	5.E-08	1.E-06
Exposed Veg. Intake/ Root Veg. Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Exposed Veg. Intake/ Fruit Intake	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Exposed Veg. Intake/Waste Concentration	3.E-08	7.E-13	7.E-08	1.E-09	6.E-11	2.E-08	9.E-09	6.E-08	1.E-06	1.E-07	5.E-08	6.E-08	3.E-08	2.E-06	NA	3.E-06
Exposed Veg. Intake/Child Soil Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Exposed Veg. Intake/Met Location	NA	8.E-13	NA	6.E-10	7.E-11	NA	NA	4.E-08	NA	4.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Exposed Veg. Intake/Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	8.E-08	2.E-06
Exposed Veg. Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	7.E-08	4.E-07	3.E-08	7.E-07
Root Veg. Intake/Fruit Intake	NA	7.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Root Veg. Intake/Waste Concentration	3.E-08	7.E-13	6.E-08	1.E-09	6.E-11	2.E-08	9.E-09	6.E-08	1.E-06	1.E-07	5.E-08	6.E-08	3.E-08	2.E-06	NA	3.E-06
Root Veg. Intake/Child Soil Intake	NA	7.E-13	NA	4.E-10	6.E-11	NA	NA	3.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Root Veg. Intake/Met Location	NA	8.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	4.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Root Veg. Intake/Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	8.E-08	2.E-06
Root Veg. Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Fruit Intake/Waste Concentration	4.E-08	7.E-13	7.E-08	1.E-09	7.E-11	2.E-08	1.E-08	6.E-08	1.E-06	1.E-07	5.E-08	7.E-08	3.E-08	2.E-06	NA	3.E-06
Fruit Intake/Child Soil Intake	NA	7.E-13	NA	5.E-10	7.E-11	NA	NA	4.E-08	NA	3.E-08	NA	2.E-08	3.E-08	2.E-07	1.E-08	3.E-07
Fruit Intake/Met Location	NA	9.E-13	NA	6.E-10	8.E-11	NA	NA	5.E-08	NA	4.E-08	NA	2.E-08	4.E-08	2.E-07	2.E-08	4.E-07
Fruit Intake/Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	8.E-08	2.E-06
Fruit Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	7.E-08	5.E-07	3.E-08	8.E-07
Waste Concentration/ Child Soil Intake	3.E-08	7.E-13	6.E-08	1.E-09	6.E-11	2.E-08	9.E-09	6.E-08	1.E-06	1.E-07	5.E-08	6.E-08	3.E-08	2.E-06	NA	3.E-06
Waste Concentration/Met Location	2.E-08	8.E-13	8.E-08	2.E-09	7.E-11	2.E-08	1.E-08	7.E-08	1.E-06	2.E-07	6.E-08	8.E-08	3.E-08	2.E-06	NA	4.E-06
Waste Concentration/Distance to Receptor	2.E-07	4.E-12	4.E-07	8.E-09	4.E-10	9.E-08	6.E-08	4.E-07	6.E-06	8.E-07	3.E-07	4.E-07	2.E-07	1.E-05	NA	2.E-05
Waste Concentration/Waste Quantity	9.E-08	2.E-12	2.E-07	3.E-09	1.E-10	4.E-08	2.E-08	1.E-07	2.E-06	3.E-07	1.E-07	2.E-07	6.E-08	4.E-06	NA	7.E-06
Child Soil Intake/Met Location	NA	8.E-13	NA	6.E-10	7.E-11	NA	NA	4.E-08	NA	4.E-08	NA	2.E-08	3.E-08	2.E-07	2.E-08	4.E-07
Child Soil Intake/Distance to Receptor	NA	4.E-12	NA	3.E-09	4.E-10	NA	NA	2.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	8.E-08	2.E-06
Child Soil Intake/Waste Quantity	NA	2.E-12	NA	1.E-09	1.E-10	NA	NA	9.E-08	NA	7.E-08	NA	5.E-08	6.E-08	4.E-07	3.E-08	7.E-07
Met Location/Distance to Receptor	NA	5.E-12	NA	3.E-09	4.E-10	NA	NA	3.E-07	NA	2.E-07	NA	1.E-07	2.E-07	1.E-06	9.E-08	2.E-06
Met Location/Waste Quantity	NA	2.E-12	NA	1.E-09	2.E-10	NA	NA	1.E-07	NA	9.E-08	NA	6.E-08	8.E-08	6.E-07	4.E-08	9.E-07
Distance to Receptor/Waste Quantity	NA	1.E-11	NA	6.E-09	8.E-10	NA	NA	5.E-07	NA	4.E-07	NA	3.E-07	4.E-07	3.E-06	2.E-07	4.E-06

**Table H.1-5a. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Adult Resident, Gardener, and Fisher**

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High End Parameter(s)	Chloroform	Ethyl chloride	Methylene chloride	Carbon disulfide	Bromoform	Methyl ethyl ketone	Trichloro ethylene	Trichloro phenol, 2,4,6-	Ethyl-benzene	Stryene	Allyl chloride	Dichloro ethane, 1,2-	Chlorobenzene	Bis(2-chlorethyl) ether	Hexachloro benzene	Chloro-1,3-butadiene, 2-	Tetrachloro ethylene	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	8.E-08	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.001	8.E-09	<0.0001	2.E-08	4.E-08	0.0002	4.E-11	3.E-10	0.0003
Single High End Parameter																			
Exposure Duration	3.E-07	<0.0001	2.E-10	<0.0001	4.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.001	3.E-08	<0.0001	5.E-08	1.E-07	0.0002	1.E-10	9.E-10	0.0003
Waste Concentration	3.E-07	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.004	2.E-08	<0.0001	7.E-08	4.E-08	0.0005	9.E-11	8.E-10	0.0006
Meteorological Location	7.E-08	<0.0001	4.E-11	<0.0001	1.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.0009	7.E-09	<0.0001	1.E-08	4.E-08	0.0002	3.E-11	2.E-10	0.0002
Distance to Receptor	5.E-07	<0.0001	3.E-10	<0.0001	8.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.007	5.E-08	<0.0001	1.E-07	2.E-07	0.001	2.E-10	2.E-09	0.002
Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	8.E-11	<0.0001	<0.0001	0.003	2.E-08	<0.0001	4.E-08	1.E-07	0.0006	8.E-11	6.E-10	0.0008
Inhalation Rate	1.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	2.E-12	5.E-11	<0.0001	<0.0001	0.001	1.E-08	<0.0001	2.E-08	6.E-08	0.0002	5.E-11	4.E-10	0.0003
Double High End Parameters																			
Exposure Duration/Waste Concentration	9.E-07	<0.0001	2.E-10	<0.0001	4.E-11	<0.0001	1.E-11	4.E-10	<0.0001	<0.0001	0.004	8.E-08	<0.0001	2.E-07	1.E-07	0.0005	3.E-10	3.E-09	0.0006
Exposure Duration/Met. Location	2.E-07	<0.0001	1.E-10	<0.0001	4.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.0009	2.E-08	<0.0001	5.E-08	1.E-07	0.0002	1.E-10	7.E-10	0.0002
Exposure Duration/Distance to Receptor	<b>2.E-06</b>	<0.0001	1.E-09	<0.0001	3.E-10	<0.0001	2.E-11	7.E-10	<0.0001	<0.0001	0.007	2.E-07	<0.0001	3.E-07	8.E-07	0.001	8.E-10	6.E-09	0.002
Exposure Duration/Waste Quantity	6.E-07	<0.0001	4.E-10	<0.0001	1.E-10	<0.0001	5.E-12	3.E-10	<0.0001	<0.0001	0.003	6.E-08	<0.0001	1.E-07	3.E-07	0.0006	3.E-10	2.E-09	0.0008
Exposure Duration/Inhalation Rate	4.E-07	<0.0001	2.E-10	<0.0001	6.E-11	<0.0001	5.E-12	2.E-10	<0.0001	<0.0001	0.001	4.E-08	<0.0001	7.E-08	2.E-07	0.0002	2.E-10	1.E-09	0.0003
Waste Concentration/Met. Location	2.E-07	<0.0001	4.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.003	2.E-08	<0.0001	6.E-08	4.E-08	0.0005	8.E-11	6.E-10	0.0006
Waste Concentration/Distance to Receptor	<b>2.E-06</b>	<0.0001	3.E-10	<0.0001	8.E-11	<0.0001	2.E-11	7.E-10	<0.0001	<0.0001	0.02	2.E-07	0.0001	4.E-07	2.E-07	0.003	6.E-10	5.E-09	0.004
Waste Concentration/Waste Quantity	6.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	4.E-12	3.E-10	<0.0001	<0.0001	0.009	6.E-08	<0.0001	2.E-07	1.E-07	0.001	2.E-10	2.E-09	0.002
Waste Concentration/Inhalation Rate	4.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	4.E-12	2.E-10	<0.0001	<0.0001	0.004	4.E-08	<0.0001	1.E-07	6.E-08	0.0005	1.E-10	1.E-09	0.0006
Met. Location/Distance to Receptor	4.E-07	<0.0001	3.E-10	<0.0001	7.E-11	<0.0001	6.E-12	2.E-10	<0.0001	<0.0001	0.006	4.E-08	<0.0001	9.E-08	2.E-07	0.001	2.E-10	1.E-09	0.002
Met Location/Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	1.E-12	8.E-11	<0.0001	<0.0001	0.002	2.E-08	<0.0001	3.E-08	9.E-08	0.0005	7.E-11	5.E-10	0.0007
Met Location/Inhalation Rate	1.E-07	<0.0001	6.E-11	<0.0001	2.E-11	<0.0001	1.E-12	5.E-11	<0.0001	<0.0001	0.0009	1.E-08	<0.0001	2.E-08	5.E-08	0.0002	5.E-11	3.E-10	0.0002
Distance to Receptor/Waste Quantity	<b>1.E-06</b>	<0.0001	7.E-10	<0.0001	2.E-10	<0.0001	9.E-12	5.E-10	<0.0001	<0.0001	0.02	1.E-07	<0.0001	2.E-07	6.E-07	0.003	5.E-10	4.E-09	0.005
Distance to Receptor/Inhalation Rate	7.E-07	<0.0001	4.E-10	<0.0001	1.E-10	<0.0001	1.E-11	3.E-10	<0.0001	<0.0001	0.007	7.E-08	<0.0001	1.E-07	4.E-07	0.001	3.E-10	2.E-09	0.002
Waste Quantity/Inhalation Rate	3.E-07	<0.0001	2.E-10	<0.0001	4.E-11	<0.0001	2.E-12	1.E-10	<0.0001	<0.0001	0.003	3.E-08	<0.0001	6.E-08	1.E-07	0.0006	1.E-10	9.E-10	0.0008

**Table H.1-5a. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Adult Resident, Gardener, and Fisher**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8-	HpCDF,1, 2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	1.E-10	NA	1.E-10	NA	1.E-10	2.E-10	7.E-10	6.E-11	1.E-09
<b>Single High End Parameter</b>																
Exposure Duration	NA	9.E-16	NA	2.E-11	6.E-13	NA	NA	5.E-10	NA	5.E-10	NA	3.E-10	8.E-10	2.E-09	2.E-10	5.E-09
Waste Concentration	2.E-10	3.E-16	1.E-10	1.E-11	2.E-13	2.E-11	2.E-10	2.E-10	1.E-09	6.E-10	9.E-11	4.E-10	2.E-10	6.E-09	NA	9.E-09
Meteorological Location	NA	2.E-16	NA	4.E-12	2.E-13	NA	NA	1.E-10	NA	1.E-10	NA	9.E-11	2.E-10	6.E-10	6.E-11	1.E-09
Distance to Receptor	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	9.E-10	NA	9.E-10	NA	6.E-10	2.E-09	5.E-09	4.E-10	9.E-09
Waste Quantity	NA	7.E-16	NA	1.E-11	5.E-13	NA	NA	3.E-10	NA	4.E-10	NA	3.E-10	6.E-10	2.E-09	2.E-10	4.E-09
Inhalation Rate	NA	4.E-16	NA	7.E-12	3.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	1.E-09	9.E-11	2.E-09
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	7.E-10	9.E-16	4.E-10	5.E-11	6.E-13	8.E-11	7.E-10	8.E-10	3.E-09	2.E-09	3.E-10	1.E-09	8.E-10	2.E-08	NA	3.E-08
Exposure Duration/Met. Location	NA	8.E-16	NA	1.E-11	6.E-13	NA	NA	4.E-10	NA	4.E-10	NA	3.E-10	7.E-10	2.E-09	2.E-10	4.E-09
Exposure Duration/Distance to Receptor	NA	6.E-15	NA	1.E-10	4.E-12	NA	NA	3.E-09	NA	3.E-09	NA	2.E-09	5.E-09	2.E-08	1.E-09	3.E-08
Exposure Duration/Waste Quantity	NA	2.E-15	NA	4.E-11	2.E-12	NA	NA	1.E-09	NA	1.E-09	NA	8.E-10	2.E-09	6.E-09	5.E-10	1.E-08
Exposure Duration/Inhalation Rate	NA	1.E-15	NA	2.E-11	9.E-13	NA	NA	7.E-10	NA	7.E-10	NA	5.E-10	1.E-09	3.E-09	3.E-10	7.E-09
Waste Concentration/Met. Location	3.E-10	2.E-16	1.E-10	1.E-11	2.E-13	2.E-11	2.E-10	2.E-10	9.E-10	6.E-10	8.E-11	3.E-10	2.E-10	6.E-09	NA	8.E-09
Waste Concentration/Distance to Receptor	1.E-09	2.E-15	7.E-10	9.E-11	1.E-12	2.E-10	1.E-09	2.E-09	7.E-09	4.E-09	6.E-10	2.E-09	2.E-09	4.E-08	NA	6.E-08
Waste Concentration/Waste Quantity	5.E-10	7.E-16	3.E-10	3.E-11	5.E-13	6.E-11	5.E-10	6.E-10	3.E-09	2.E-09	2.E-10	9.E-10	6.E-10	2.E-08	NA	2.E-08
Waste Concentration/Inhalation Rate	3.E-10	4.E-16	2.E-10	2.E-11	3.E-13	4.E-11	3.E-10	3.E-10	1.E-09	9.E-10	1.E-10	5.E-10	3.E-10	9.E-09	NA	1.E-08
Met. Location/Distance to Receptor	NA	1.E-15	NA	3.E-11	1.E-12	NA	NA	8.E-10	NA	8.E-10	NA	6.E-10	1.E-09	4.E-09	4.E-10	8.E-09
Met Location/Waste Quantity	NA	6.E-16	NA	1.E-11	4.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	5.E-10	2.E-09	1.E-10	3.E-09
Met Location/Inhalation Rate	NA	4.E-16	NA	6.E-12	2.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	9.E-10	8.E-11	2.E-09
Distance to Receptor/Waste Quantity	NA	4.E-15	NA	7.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	1.E-09	3.E-09	1.E-08	9.E-10	2.E-08
Distance to Receptor/Inhalation Rate	NA	2.E-15	NA	5.E-11	2.E-12	NA	NA	1.E-09	NA	1.E-09	NA	9.E-10	2.E-09	7.E-09	6.E-10	1.E-08
Waste Quantity/Inhalation Rate	NA	1.E-15	NA	2.E-11	7.E-13	NA	NA	5.E-10	NA	5.E-10	NA	4.E-10	9.E-10	3.E-09	2.E-10	5.E-09

**Table H.1-5b. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baton Rouge as High end Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Chloroform	Ethyl chloride	Methylene chloride	Carbon disulfide	Bromoform	Methyl ethyl ketone	Trichloro ethylene	Trichloro phenol, 2,4,6-	Ethyl-benzene	Stryene	Allyl chloride	Dichloro ethane, 1,2-	Chloro-benzene	Bis(2-chlorethyl) ether	Hexachloro benzene	Chloro-1,3-butadiene, 2-	Tetrachloro ethylene	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	8.E-08	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	1.E-12	4.E-11	<0.0001	<0.0001	0.001	9.E-09	<0.0001	2.E-08	4.E-08	0.0002	4.E-11	3.E-10	0.0003
<b>Single High End Parameter</b>																			
Exposure Duration	4.E-07	<0.0001	2.E-10	<0.0001	7.E-11	<0.0001	6.E-12	2.E-10	<0.0001	<0.0001	0.001	4.E-08	<0.0001	8.E-08	2.E-07	0.0002	2.E-10	1.E-09	0.0003
Waste Concentration	3.E-07	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.004	3.E-08	<0.0001	8.E-08	4.E-08	0.0005	1.E-10	9.E-10	0.0006
Meteorological Location	7.E-08	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.0009	8.E-09	<0.0001	2.E-08	4.E-08	0.0002	4.E-11	2.E-10	0.0002
Distance to Receptor	5.E-07	<0.0001	3.E-10	<0.0001	9.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.007	6.E-08	<0.0001	1.E-07	3.E-07	0.001	3.E-10	2.E-09	0.002
Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	9.E-11	<0.0001	<0.0001	0.003	2.E-08	<0.0001	4.E-08	1.E-07	0.0006	9.E-11	7.E-10	0.0008
Inhalation Rate	1.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	2.E-12	5.E-11	<0.0001	<0.0001	0.001	1.E-08	<0.0001	2.E-08	6.E-08	0.0002	6.E-11	4.E-10	0.0003
<b>Double High End Parameters</b>																			
Exposure Duration/Waste Concentration	<b>1.E-06</b>	<0.0001	3.E-10	<0.0001	7.E-11	<0.0001	2.E-11	6.E-10	<0.0001	<0.0001	0.004	1.E-07	<0.0001	4.E-07	2.E-07	0.0005	5.E-10	4.E-09	0.0006
Exposure Duration/Met. Location	4.E-07	<0.0001	2.E-10	<0.0001	6.E-11	<0.0001	5.E-12	2.E-10	<0.0001	<0.0001	0.0009	4.E-08	<0.0001	8.E-08	2.E-07	0.0002	2.E-10	1.E-09	0.0002
Exposure Duration/Distance to Receptor	<b>3.E-06</b>	<0.0001	2.E-09	<0.0001	4.E-10	<0.0001	4.E-11	1.E-09	<0.0001	<0.0001	0.007	3.E-07	<0.0001	5.E-07	<b>1.E-06</b>	0.001	1.E-09	9.E-09	0.002
Exposure Duration/Waste Quantity	9.E-07	<0.0001	6.E-10	<0.0001	2.E-10	<0.0001	8.E-12	4.E-10	<0.0001	<0.0001	0.003	1.E-07	<0.0001	2.E-07	5.E-07	0.0006	5.E-10	3.E-09	0.0008
Exposure Duration/Inhalation Rate	6.E-07	<0.0001	4.E-10	<0.0001	1.E-10	<0.0001	8.E-12	2.E-10	<0.0001	<0.0001	0.001	6.E-08	<0.0001	1.E-07	3.E-07	0.0002	3.E-10	2.E-09	0.0003
Waste Concentration/Met. Location	3.E-07	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.003	2.E-08	<0.0001	7.E-08	4.E-08	0.0005	9.E-11	7.E-10	0.0006
Waste Concentration/Distance to Receptor	<b>2.E-06</b>	<0.0001	3.E-10	<0.0001	9.E-11	<0.0001	2.E-11	8.E-10	<0.0001	<0.0001	0.02	2.E-07	0.0001	5.E-07	3.E-07	0.003	7.E-10	5.E-09	0.004
Waste Concentration/Waste Quantity	7.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	5.E-12	3.E-10	<0.0001	<0.0001	0.009	6.E-08	<0.0001	2.E-07	1.E-07	0.001	2.E-10	2.E-09	0.002
Waste Concentration/Inhalation Rate	4.E-07	<0.0001	8.E-11	<0.0001	2.E-11	<0.0001	5.E-12	2.E-10	<0.0001	<0.0001	0.004	4.E-08	<0.0001	1.E-07	6.E-08	0.0005	1.E-10	1.E-09	0.0006
Met. Location/Distance to Receptor	5.E-07	<0.0001	3.E-10	<0.0001	8.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.006	5.E-08	<0.0001	1.E-07	3.E-07	0.001	2.E-10	2.E-09	0.002
Met Location/Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	9.E-11	<0.0001	<0.0001	0.002	2.E-08	<0.0001	4.E-08	1.E-07	0.0005	8.E-11	6.E-10	0.0007
Met Location/Inhalation Rate	1.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	2.E-12	5.E-11	<0.0001	<0.0001	0.0009	1.E-08	<0.0001	2.E-08	6.E-08	0.0002	5.E-11	4.E-10	0.0002
Distance to Receptor/Waste Quantity	<b>1.E-06</b>	<0.0001	8.E-10	<0.0001	2.E-10	<0.0001	1.E-11	5.E-10	<0.0001	<0.0001	0.02	1.E-07	<0.0001	3.E-07	7.E-07	0.003	6.E-10	4.E-09	0.005
Distance to Receptor/Inhalation Rate	8.E-07	<0.0001	5.E-10	<0.0001	1.E-10	<0.0001	1.E-11	3.E-10	<0.0001	<0.0001	0.007	8.E-08	<0.0001	2.E-07	4.E-07	0.001	4.E-10	3.E-09	0.002
Waste Quantity/Inhalation Rate	3.E-07	<0.0001	2.E-10	<0.0001	5.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.003	3.E-08	<0.0001	6.E-08	2.E-07	0.0006	1.E-10	1.E-09	0.0008



**Table H.1-5b. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baton Rouge as High end Location  
(Tank, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8-	HpCDF,1, 2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	8.E-10	7.E-11	2.E-09
<b>Single High End Parameter</b>																
Exposure Duration	NA	1.E-15	NA	3.E-11	1.E-12	NA	NA	8.E-10	NA	8.E-10	NA	5.E-10	1.E-09	4.E-09	3.E-10	7.E-09
Waste Concentration	2.E-10	3.E-16	1.E-10	2.E-11	2.E-13	3.E-11	2.E-10	3.E-10	1.E-09	7.E-10	1.E-10	4.E-10	3.E-10	7.E-09	NA	1.E-08
Meteorological Location	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	1.E-10	NA	1.E-10	NA	1.E-10	2.E-10	7.E-10	6.E-11	1.E-09
Distance to Receptor	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	1.E-09	NA	1.E-09	NA	7.E-10	2.E-09	5.E-09	5.E-10	1.E-08
Waste Quantity	NA	8.E-16	NA	1.E-11	5.E-13	NA	NA	4.E-10	NA	4.E-10	NA	3.E-10	7.E-10	2.E-09	2.E-10	4.E-09
Inhalation Rate	NA	4.E-16	NA	8.E-12	3.E-13	NA	NA	2.E-10	NA	2.E-10	NA	2.E-10	4.E-10	1.E-09	1.E-10	2.E-09
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	1.E-09	1.E-15	6.E-10	7.E-11	1.E-12	1.E-10	1.E-09	1.E-09	5.E-09	3.E-09	5.E-10	2.E-09	1.E-09	3.E-08	NA	5.E-08
Exposure Duration/Met. Location	NA	1.E-15	NA	2.E-11	9.E-13	NA	NA	7.E-10	NA	7.E-10	NA	5.E-10	1.E-09	3.E-09	3.E-10	7.E-09
Exposure Duration/Distance to Receptor	NA	9.E-15	NA	2.E-10	6.E-12	NA	NA	5.E-09	NA	5.E-09	NA	3.E-09	8.E-09	2.E-08	2.E-09	5.E-08
Exposure Duration/Waste Quantity	NA	4.E-15	NA	7.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	1.E-09	3.E-09	1.E-08	9.E-10	2.E-08
Exposure Duration/Inhalation Rate	NA	2.E-15	NA	4.E-11	1.E-12	NA	NA	1.E-09	NA	1.E-09	NA	8.E-10	2.E-09	6.E-09	5.E-10	1.E-08
Waste Concentration/Met. Location	3.E-10	3.E-16	1.E-10	1.E-11	2.E-13	2.E-11	2.E-10	2.E-10	1.E-09	6.E-10	9.E-11	4.E-10	2.E-10	6.E-09	NA	9.E-09
Waste Concentration/Distance to Receptor	2.E-09	2.E-15	8.E-10	1.E-10	1.E-12	2.E-10	1.E-09	2.E-09	7.E-09	4.E-09	6.E-10	3.E-09	2.E-09	4.E-08	NA	7.E-08
Waste Concentration/Waste Quantity	6.E-10	8.E-16	3.E-10	4.E-11	5.E-13	7.E-11	6.E-10	7.E-10	3.E-09	2.E-09	3.E-10	1.E-09	7.E-10	2.E-08	NA	3.E-08
Waste Concentration/Inhalation Rate	4.E-10	4.E-16	2.E-10	2.E-11	3.E-13	4.E-11	3.E-10	4.E-10	2.E-09	1.E-09	1.E-10	6.E-10	4.E-10	1.E-08	NA	2.E-08
Met. Location/Distance to Receptor	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	9.E-10	NA	9.E-10	NA	6.E-10	1.E-09	4.E-09	4.E-10	9.E-09
Met Location/Waste Quantity	NA	7.E-16	NA	1.E-11	5.E-13	NA	NA	3.E-10	NA	4.E-10	NA	2.E-10	6.E-10	2.E-09	2.E-10	3.E-09
Met Location/Inhalation Rate	NA	4.E-16	NA	7.E-12	3.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	1.E-09	9.E-11	2.E-09
Distance to Receptor/Waste Quantity	NA	4.E-15	NA	8.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	2.E-09	4.E-09	1.E-08	1.E-09	2.E-08
Distance to Receptor/Inhalation Rate	NA	3.E-15	NA	5.E-11	2.E-12	NA	NA	1.E-09	NA	1.E-09	NA	1.E-09	2.E-09	7.E-09	7.E-10	1.E-08
Waste Quantity/Inhalation Rate	NA	1.E-15	NA	2.E-11	8.E-13	NA	NA	6.E-10	NA	6.E-10	NA	4.E-10	1.E-09	3.E-09	3.E-10	6.E-09



**Table H.1-5c. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Child of Resident and Child of Farmer**

6/25/99

High End Parameter(s)	Chloroform	Ethyl chloride	Methylene chloride	Carbon disulfide	Bromoform	Methyl ethyl ketone	Trichloro ethylene	Trichloro phenol, 2,4,6-	Ethyl-benzene	Stryene	Allyl chloride	Dichloro ethane, 1,2-	Chloro-benzene	Bis(2-chlorethyl) ether	Hexachloro benzene	Chloro-1,3-butadiene, 2-	Tetrachloro ethylene	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	8.E-08	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.001	9.E-09	<0.0001	2.E-08	4.E-08	0.0002	4.E-11	3.E-10	0.0003
Single High End Parameter																			
Exposure Duration	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	7.E-11	<0.0001	<0.0001	0.001	2.E-08	<0.0001	3.E-08	9.E-08	0.0002	9.E-11	6.E-10	0.0003
Waste Concentration	3.E-07	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.004	3.E-08	<0.0001	8.E-08	4.E-08	0.0005	1.E-10	8.E-10	0.0006
Meteorological Location	7.E-08	<0.0001	4.E-11	<0.0001	1.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.0009	8.E-09	<0.0001	2.E-08	4.E-08	0.0002	4.E-11	2.E-10	0.0002
Distance to Receptor	5.E-07	<0.0001	3.E-10	<0.0001	9.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.007	6.E-08	<0.0001	1.E-07	3.E-07	0.001	3.E-10	2.E-09	0.002
Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	9.E-11	<0.0001	<0.0001	0.003	2.E-08	<0.0001	4.E-08	1.E-07	0.0006	9.E-11	7.E-10	0.0008
Inhalation Rate	1.E-07	<0.0001	9.E-11	<0.0001	2.E-11	<0.0001	2.E-12	6.E-11	<0.0001	<0.0001	0.001	2.E-08	<0.0001	3.E-08	8.E-08	0.0002	7.E-11	5.E-10	0.0003
Double High End Parameters																			
Exposure Duration/Waste Concentration	6.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	7.E-12	3.E-10	<0.0001	<0.0001	0.004	6.E-08	<0.0001	2.E-07	9.E-08	0.0005	2.E-10	2.E-09	0.0006
Exposure Duration/Met. Location	2.E-07	<0.0001	9.E-11	<0.0001	3.E-11	<0.0001	2.E-12	7.E-11	<0.0001	<0.0001	0.0009	2.E-08	<0.0001	3.E-08	8.E-08	0.0002	8.E-11	5.E-10	0.0002
Exposure Duration/Distance to Receptor	<b>1.E-06</b>	<0.0001	7.E-10	<0.0001	2.E-10	<0.0001	2.E-11	5.E-10	<0.0001	<0.0001	0.007	1.E-07	<0.0001	2.E-07	6.E-07	0.001	5.E-10	4.E-09	0.002
Exposure Duration/Waste Quantity	4.E-07	<0.0001	3.E-10	<0.0001	7.E-11	<0.0001	4.E-12	2.E-10	<0.0001	<0.0001	0.003	4.E-08	<0.0001	9.E-08	2.E-07	0.0006	2.E-10	1.E-09	0.0008
Exposure Duration/Inhalation Rate	3.E-07	<0.0001	2.E-10	<0.0001	5.E-11	<0.0001	4.E-12	1.E-10	<0.0001	<0.0001	0.001	3.E-08	<0.0001	6.E-08	2.E-07	0.0002	2.E-10	1.E-09	0.0003
Waste Concentration/Met. Location	3.E-07	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.003	2.E-08	<0.0001	7.E-08	4.E-08	0.0005	9.E-11	7.E-10	0.0006
Waste Concentration/Distance to Receptor	<b>2.E-06</b>	<0.0001	3.E-10	<0.0001	9.E-11	<0.0001	2.E-11	8.E-10	<0.0001	<0.0001	0.02	2.E-07	0.0001	5.E-07	3.E-07	0.003	6.E-10	5.E-09	0.004
Waste Concentration/Waste Quantity	<b>7.E-07</b>	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	5.E-12	3.E-10	<0.0001	<0.0001	0.009	6.E-08	<0.0001	2.E-07	1.E-07	0.001	2.E-10	2.E-09	0.002
Waste Concentration/Inhalation Rate	5.E-07	<0.0001	9.E-11	<0.0001	3.E-11	<0.0001	6.E-12	2.E-10	<0.0001	<0.0001	0.004	5.E-08	<0.0001	1.E-07	8.E-08	0.0005	2.E-10	1.E-09	0.0006
Met. Location/Distance to Receptor	5.E-07	<0.0001	3.E-10	<0.0001	8.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.006	5.E-08	<0.0001	1.E-07	2.E-07	0.001	2.E-10	1.E-09	0.002
Met Location/Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	9.E-11	<0.0001	<0.0001	0.002	2.E-08	<0.0001	4.E-08	1.E-07	0.0005	8.E-11	6.E-10	0.0007
Met Location/Inhalation Rate	1.E-07	<0.0001	8.E-11	<0.0001	2.E-11	<0.0001	2.E-12	6.E-11	<0.0001	<0.0001	0.0009	1.E-08	<0.0001	3.E-08	7.E-08	0.0002	6.E-11	4.E-10	0.0002
Distance to Receptor/Waste Quantity	<b>1.E-06</b>	<0.0001	8.E-10	<0.0001	2.E-10	<0.0001	1.E-11	5.E-10	<0.0001	<0.0001	0.02	1.E-07	<0.0001	2.E-07	<b>7.E-07</b>	0.003	6.E-10	4.E-09	0.005
Distance to Receptor/Inhalation Rate	9.E-07	<0.0001	6.E-10	<0.0001	2.E-10	<0.0001	1.E-11	4.E-10	<0.0001	<0.0001	0.007	1.E-07	<0.0001	2.E-07	<b>5.E-07</b>	0.001	5.E-10	3.E-09	0.002
Waste Quantity/Inhalation Rate	3.E-07	<0.0001	2.E-10	<0.0001	6.E-11	<0.0001	3.E-12	2.E-10	<0.0001	<0.0001	0.003	4.E-08	<0.0001	7.E-08	2.E-07	0.0006	2.E-10	1.E-09	0.0008

**Table H.1-5c. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baton Rouge as High End Location (Tank, Non-Groundwater Deterministic), Child of Resident and Child of Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8-	HpCDF,1, 2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	8.E-10	7.E-11	2.E-09
<b>Single High End Parameter</b>																
Exposure Duration	NA	6.E-16	NA	1.E-11	4.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	5.E-10	2.E-09	1.E-10	3.E-09
Waste Concentration	2.E-10	3.E-16	1.E-10	2.E-11	2.E-13	3.E-11	2.E-10	3.E-10	1.E-09	7.E-10	1.E-10	4.E-10	3.E-10	7.E-09	NA	1.E-08
Meteorological Location	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	1.E-10	NA	1.E-10	NA	1.E-10	2.E-10	7.E-10	6.E-11	1.E-09
Distance to Receptor	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	1.E-09	NA	1.E-09	NA	7.E-10	2.E-09	5.E-09	4.E-10	1.E-08
Waste Quantity	NA	7.E-16	NA	1.E-11	5.E-13	NA	NA	4.E-10	NA	4.E-10	NA	3.E-10	6.E-10	2.E-09	2.E-10	4.E-09
Inhalation Rate	NA	5.E-16	NA	9.E-12	4.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	5.E-10	1.E-09	1.E-10	3.E-09
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	5.E-10	6.E-16	3.E-10	3.E-11	4.E-13	6.E-11	5.E-10	5.E-10	2.E-09	1.E-09	2.E-10	8.E-10	5.E-10	1.E-08	NA	2.E-08
Exposure Duration/Met. Location	NA	6.E-16	NA	1.E-11	4.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	5.E-10	1.E-09	1.E-10	3.E-09
Exposure Duration/Distance to Receptor	NA	4.E-15	NA	7.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	1.E-09	3.E-09	1.E-08	9.E-10	2.E-08
Exposure Duration/Waste Quantity	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	8.E-10	NA	8.E-10	NA	6.E-10	1.E-09	4.E-09	4.E-10	8.E-09
Exposure Duration/Inhalation Rate	NA	1.E-15	NA	2.E-11	8.E-13	NA	NA	6.E-10	NA	6.E-10	NA	4.E-10	1.E-09	3.E-09	3.E-10	6.E-09
Waste Concentration/Met. Location	3.E-10	3.E-16	1.E-10	1.E-11	2.E-13	2.E-11	2.E-10	2.E-10	1.E-09	6.E-10	9.E-11	4.E-10	2.E-10	6.E-09	NA	9.E-09
Waste Concentration/Distance to Receptor	2.E-09	2.E-15	8.E-10	1.E-10	1.E-12	2.E-10	1.E-09	2.E-09	7.E-09	4.E-09	6.E-10	3.E-09	2.E-09	4.E-08	NA	7.E-08
Waste Concentration/Waste Quantity	6.E-10	7.E-16	3.E-10	4.E-11	5.E-13	7.E-11	6.E-10	6.E-10	3.E-09	2.E-09	3.E-10	1.E-09	6.E-10	2.E-08	NA	3.E-08
Waste Concentration/Inhalation Rate	4.E-10	5.E-16	2.E-10	3.E-11	4.E-13	5.E-11	4.E-10	5.E-10	2.E-09	1.E-09	2.E-10	7.E-10	5.E-10	1.E-08	NA	2.E-08
Met. Location/Distance to Receptor	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	9.E-10	NA	9.E-10	NA	6.E-10	1.E-09	4.E-09	4.E-10	9.E-09
Met Location/Waste Quantity	NA	7.E-16	NA	1.E-11	5.E-13	NA	NA	3.E-10	NA	4.E-10	NA	2.E-10	6.E-10	2.E-09	2.E-10	3.E-09
Met Location/Inhalation Rate	NA	5.E-16	NA	9.E-12	3.E-13	NA	NA	2.E-10	NA	3.E-10	NA	2.E-10	4.E-10	1.E-09	1.E-10	2.E-09
Distance to Receptor/Waste Quantity	NA	4.E-15	NA	8.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	2.E-09	4.E-09	1.E-08	1.E-09	2.E-08
Distance to Receptor/Inhalation Rate	NA	3.E-15	NA	6.E-11	2.E-12	NA	NA	2.E-09	NA	2.E-09	NA	1.E-09	3.E-09	9.E-09	8.E-10	2.E-08
Waste Quantity/Inhalation Rate	NA	1.E-15	NA	2.E-11	9.E-13	NA	NA	7.E-10	NA	7.E-10	NA	5.E-10	1.E-09	3.E-09	3.E-10	7.E-09

**Table H.1-6a. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baltimore as High End Location (Tank, Non-Groundwater Deterministic), Adult Resident, Gardener, and Fisher**

6/25/99

High End Parameter(s)	Chloroform	Ethyl chloride	Methylene chloride	Carbon disulfide	Bromoform	Methyl ethyl ketone	Trichloro ethylene	Trichloro phenol, 2,4,6-	Ethyl-benzene	Stryene	Allyl chloride	Dichloro ethane, 1,2-	Chlorobenzene	Bis(2-chlorethyl) ether	Hexachloro benzene	Chloro-1,3-butadiene, 2-	Tetrachloro ethylene	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	8.E-08	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.001	8.E-09	<0.0001	2.E-08	4.E-08	0.0002	4.E-11	3.E-10	0.0003
Single High End Parameter																			
Exposure Duration	3.E-07	<0.0001	2.E-10	<0.0001	4.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.001	3.E-08	<0.0001	5.E-08	1.E-07	0.0002	1.E-10	9.E-10	0.0003
Waste Concentration	3.E-07	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.004	2.E-08	<0.0001	7.E-08	4.E-08	0.0005	9.E-11	8.E-10	0.0006
Meteorological Location	1.E-07	<0.0001	6.E-11	<0.0001	1.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.001	1.E-08	<0.0001	2.E-08	4.E-08	0.0003	5.E-11	4.E-10	0.0003
Distance to Receptor	5.E-07	<0.0001	3.E-10	<0.0001	8.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.007	5.E-08	<0.0001	1.E-07	2.E-07	0.001	2.E-10	2.E-09	0.002
Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	8.E-11	<0.0001	<0.0001	0.003	2.E-08	<0.0001	4.E-08	1.E-07	0.0006	8.E-11	6.E-10	0.0008
Inhalation Rate	1.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	2.E-12	5.E-11	<0.0001	<0.0001	0.001	1.E-08	<0.0001	2.E-08	6.E-08	0.0002	5.E-11	4.E-10	0.0003
Double High End Parameters																			
Exposure Duration/Waste Concentration	9.E-07	<0.0001	2.E-10	<0.0001	4.E-11	<0.0001	1.E-11	4.E-10	<0.0001	<0.0001	0.004	8.E-08	<0.0001	2.E-07	1.E-07	0.0005	3.E-10	3.E-09	0.0006
Exposure Duration/Met. Location	3.E-07	<0.0001	2.E-10	<0.0001	5.E-11	<0.0001	4.E-12	1.E-10	<0.0001	<0.0001	0.001	3.E-08	<0.0001	6.E-08	1.E-07	0.0003	2.E-10	1.E-09	0.0003
Exposure Duration/Distance to Receptor	<b>2.E-06</b>	<0.0001	1.E-09	<0.0001	3.E-10	<0.0001	2.E-11	7.E-10	<0.0001	<0.0001	0.007	2.E-07	<0.0001	3.E-07	8.E-07	0.001	8.E-10	6.E-09	0.002
Exposure Duration/Waste Quantity	6.E-07	<0.0001	4.E-10	<0.0001	1.E-10	<0.0001	5.E-12	3.E-10	<0.0001	<0.0001	0.003	6.E-08	<0.0001	1.E-07	3.E-07	0.0006	3.E-10	2.E-09	0.0008
Exposure Duration/Inhalation Rate	4.E-07	<0.0001	2.E-10	<0.0001	6.E-11	<0.0001	5.E-12	2.E-10	<0.0001	<0.0001	0.001	4.E-08	<0.0001	7.E-08	2.E-07	0.0002	2.E-10	1.E-09	0.0003
Waste Concentration/Met. Location	3.E-07	<0.0001	6.E-11	<0.0001	2.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.005	3.E-08	<0.0001	8.E-08	4.E-08	0.0007	1.E-10	1.E-09	0.0008
Waste Concentration/Distance to Receptor	<b>2.E-06</b>	<0.0001	3.E-10	<0.0001	8.E-11	<0.0001	2.E-11	7.E-10	<0.0001	<0.0001	0.02	2.E-07	0.0001	4.E-07	2.E-07	0.003	6.E-10	5.E-09	0.004
Waste Concentration/Waste Quantity	6.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	4.E-12	3.E-10	<0.0001	<0.0001	0.009	6.E-08	<0.0001	2.E-07	1.E-07	0.001	2.E-10	2.E-09	0.002
Waste Concentration/Inhalation Rate	4.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	4.E-12	2.E-10	<0.0001	<0.0001	0.004	4.E-08	<0.0001	1.E-07	6.E-08	0.0005	1.E-10	1.E-09	0.0006
Met. Location/Distance to Receptor	6.E-07	<0.0001	3.E-10	<0.0001	8.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.008	6.E-08	<0.0001	1.E-07	2.E-07	0.002	3.E-10	2.E-09	0.002
Met Location/Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	4.E-11	<0.0001	2.E-12	8.E-11	<0.0001	<0.0001	0.003	2.E-08	<0.0001	4.E-08	1.E-07	0.0007	1.E-10	9.E-10	0.001
Met Location/Inhalation Rate	1.E-07	<0.0001	9.E-11	<0.0001	2.E-11	<0.0001	2.E-12	4.E-11	<0.0001	<0.0001	0.001	1.E-08	<0.0001	3.E-08	6.E-08	0.0003	7.E-11	6.E-10	0.0003
Distance to Receptor/Waste Quantity	<b>1.E-06</b>	<0.0001	7.E-10	<0.0001	2.E-10	<0.0001	9.E-12	5.E-10	<0.0001	<0.0001	0.02	1.E-07	<0.0001	2.E-07	6.E-07	0.003	5.E-10	4.E-09	0.005
Distance to Receptor/Inhalation Rate	7.E-07	<0.0001	4.E-10	<0.0001	1.E-10	<0.0001	1.E-11	3.E-10	<0.0001	<0.0001	0.007	7.E-08	<0.0001	1.E-07	4.E-07	0.001	3.E-10	2.E-09	0.002
Waste Quantity/Inhalation Rate	3.E-07	<0.0001	2.E-10	<0.0001	4.E-11	<0.0001	2.E-12	1.E-10	<0.0001	<0.0001	0.003	3.E-08	<0.0001	6.E-08	1.E-07	0.0006	1.E-10	9.E-10	0.0008

**Table H.1-6a. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baltimore as High End Location (Tank, Non-Groundwater Deterministic), Adult Resident, Gardener, and Fisher**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8-	HpCDF,1, 2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	1.E-10	NA	1.E-10	NA	1.E-10	2.E-10	7.E-10	6.E-11	1.E-09
<b>Single High End Parameter</b>																
Exposure Duration	NA	9.E-16	NA	2.E-11	6.E-13	NA	NA	5.E-10	NA	5.E-10	NA	3.E-10	8.E-10	2.E-09	2.E-10	5.E-09
Waste Concentration	2.E-10	3.E-16	1.E-10	1.E-11	2.E-13	2.E-11	2.E-10	2.E-10	1.E-09	6.E-10	9.E-11	4.E-10	2.E-10	6.E-09	NA	9.E-09
Meteorological Location	NA	3.E-16	NA	6.E-12	2.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	9.E-10	8.E-11	2.E-09
Distance to Receptor	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	9.E-10	NA	9.E-10	NA	6.E-10	2.E-09	5.E-09	4.E-10	9.E-09
Waste Quantity	NA	7.E-16	NA	1.E-11	5.E-13	NA	NA	3.E-10	NA	4.E-10	NA	3.E-10	6.E-10	2.E-09	2.E-10	4.E-09
Inhalation Rate	NA	4.E-16	NA	7.E-12	3.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	1.E-09	9.E-11	2.E-09
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	7.E-10	9.E-16	4.E-10	5.E-11	6.E-13	8.E-11	7.E-10	8.E-10	3.E-09	2.E-09	3.E-10	1.E-09	8.E-10	2.E-08	NA	3.E-08
Exposure Duration/Met. Location	NA	1.E-15	NA	2.E-11	8.E-13	NA	NA	6.E-10	NA	6.E-10	NA	4.E-10	1.E-09	3.E-09	3.E-10	6.E-09
Exposure Duration/Distance to Receptor	NA	6.E-15	NA	1.E-10	4.E-12	NA	NA	3.E-09	NA	3.E-09	NA	2.E-09	5.E-09	2.E-08	1.E-09	3.E-08
Exposure Duration/Waste Quantity	NA	2.E-15	NA	4.E-11	2.E-12	NA	NA	1.E-09	NA	1.E-09	NA	8.E-10	2.E-09	6.E-09	5.E-10	1.E-08
Exposure Duration/Inhalation Rate	NA	1.E-15	NA	2.E-11	9.E-13	NA	NA	7.E-10	NA	7.E-10	NA	5.E-10	1.E-09	3.E-09	3.E-10	7.E-09
Waste Concentration/Met. Location	1.E-10	3.E-16	1.E-10	2.E-11	2.E-13	3.E-11	3.E-10	3.E-10	1.E-09	8.E-10	1.E-10	5.E-10	3.E-10	8.E-09	NA	1.E-08
Waste Concentration/Distance to Receptor	1.E-09	2.E-15	7.E-10	9.E-11	1.E-12	2.E-10	1.E-09	2.E-09	7.E-09	4.E-09	6.E-10	2.E-09	2.E-09	4.E-08	NA	6.E-08
Waste Concentration/Waste Quantity	5.E-10	7.E-16	3.E-10	3.E-11	5.E-13	6.E-11	5.E-10	6.E-10	3.E-09	2.E-09	2.E-10	9.E-10	6.E-10	2.E-08	NA	2.E-08
Waste Concentration/Inhalation Rate	3.E-10	4.E-16	2.E-10	2.E-11	3.E-13	4.E-11	3.E-10	3.E-10	1.E-09	9.E-10	1.E-10	5.E-10	3.E-10	9.E-09	NA	1.E-08
Met. Location/Distance to Receptor	NA	2.E-15	NA	4.E-11	1.E-12	NA	NA	1.E-09	NA	1.E-09	NA	7.E-10	2.E-09	5.E-09	5.E-10	1.E-08
Met Location/Waste Quantity	NA	8.E-16	NA	2.E-11	6.E-13	NA	NA	4.E-10	NA	5.E-10	NA	3.E-10	7.E-10	2.E-09	2.E-10	4.E-09
Met Location/Inhalation Rate	NA	5.E-16	NA	9.E-12	3.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	4.E-10	1.E-09	1.E-10	3.E-09
Distance to Receptor/Waste Quantity	NA	4.E-15	NA	7.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	1.E-09	3.E-09	1.E-08	9.E-10	2.E-08
Distance to Receptor/Inhalation Rate	NA	2.E-15	NA	5.E-11	2.E-12	NA	NA	1.E-09	NA	1.E-09	NA	9.E-10	2.E-09	7.E-09	6.E-10	1.E-08
Waste Quantity/Inhalation Rate	NA	1.E-15	NA	2.E-11	7.E-13	NA	NA	5.E-10	NA	5.E-10	NA	4.E-10	9.E-10	3.E-09	2.E-10	5.E-09

**Table H.1-6b. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic) Farmer**

6/25/99

High End Parameter(s)	Chloroform	Ethyl chloride	Methylene chloride	Carbon disulfide	Bromoform	Methyl ethyl ketone	Trichloro ethylene	Trichloro phenol, 2,4,6-	Ethyl-benzene	Stryene	Allyl chloride	Dichloro ethane, 1,2-	Chloro-benzene	Bis(2-chlorethyl) ether	Hexachloro benzene	Chloro-1,3-butadiene, 2-	Tetrachloro ethylene	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	8.E-08	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	1.E-12	4.E-11	<0.0001	<0.0001	0.001	9.E-09	<0.0001	2.E-08	4.E-08	0.0002	4.E-11	3.E-10	0.0003
<b>Single High End Parameter</b>																			
Exposure Duration	4.E-07	<0.0001	2.E-10	<0.0001	7.E-11	<0.0001	6.E-12	2.E-10	<0.0001	<0.0001	0.001	4.E-08	<0.0001	8.E-08	2.E-07	0.0002	2.E-10	1.E-09	0.0003
Waste Concentration	3.E-07	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.004	3.E-08	<0.0001	8.E-08	4.E-08	0.0005	1.E-10	9.E-10	0.0006
Meteorological Location	1.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.001	1.E-08	<0.0001	2.E-08	4.E-08	0.0003	5.E-11	4.E-10	0.0003
Distance to Receptor	5.E-07	<0.0001	3.E-10	<0.0001	9.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.007	6.E-08	<0.0001	1.E-07	3.E-07	0.001	3.E-10	2.E-09	0.002
Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	9.E-11	<0.0001	<0.0001	0.003	2.E-08	<0.0001	4.E-08	1.E-07	0.0006	9.E-11	7.E-10	0.0008
Inhalation Rate	1.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	2.E-12	5.E-11	<0.0001	<0.0001	0.001	1.E-08	<0.0001	2.E-08	6.E-08	0.0002	6.E-11	4.E-10	0.0003
<b>Double High End Parameters</b>																			
Exposure Duration/Waste Concentration	<b>1.E-06</b>	<0.0001	3.E-10	<0.0001	7.E-11	<0.0001	2.E-11	6.E-10	<0.0001	<0.0001	0.004	1.E-07	<0.0001	4.E-07	2.E-07	0.0005	5.E-10	4.E-09	0.0006
Exposure Duration/Met. Location	5.E-07	<0.0001	3.E-10	<0.0001	8.E-11	<0.0001	6.E-12	2.E-10	<0.0001	<0.0001	0.001	5.E-08	<0.0001	9.E-08	2.E-07	0.0003	3.E-10	2.E-09	0.0003
Exposure Duration/Distance to Receptor	<b>3.E-06</b>	<0.0001	2.E-09	<0.0001	4.E-10	<0.0001	4.E-11	1.E-09	<0.0001	<0.0001	0.007	3.E-07	<0.0001	5.E-07	<b>1.E-06</b>	0.001	1.E-09	9.E-09	0.002
Exposure Duration/Waste Quantity	9.E-07	<0.0001	6.E-10	<0.0001	2.E-10	<0.0001	8.E-12	4.E-10	<0.0001	<0.0001	0.003	1.E-07	<0.0001	2.E-07	5.E-07	0.0006	5.E-10	3.E-09	0.0008
Exposure Duration/Inhalation Rate	6.E-07	<0.0001	4.E-10	<0.0001	1.E-10	<0.0001	8.E-12	2.E-10	<0.0001	<0.0001	0.001	6.E-08	<0.0001	1.E-07	3.E-07	0.0002	3.E-10	2.E-09	0.0003
Waste Concentration/Met. Location	4.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	4.E-12	1.E-10	<0.0001	<0.0001	0.005	3.E-08	<0.0001	9.E-08	4.E-08	0.0007	1.E-10	1.E-09	0.0008
Waste Concentration/Distance to Receptor	<b>2.E-06</b>	<0.0001	3.E-10	<0.0001	9.E-11	<0.0001	2.E-11	8.E-10	<0.0001	<0.0001	0.02	2.E-07	0.0001	5.E-07	3.E-07	0.003	7.E-10	5.E-09	0.004
Waste Concentration/Waste Quantity	7.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	5.E-12	3.E-10	<0.0001	<0.0001	0.009	6.E-08	<0.0001	2.E-07	1.E-07	0.001	2.E-10	2.E-09	0.002
Waste Concentration/Inhalation Rate	4.E-07	<0.0001	8.E-11	<0.0001	2.E-11	<0.0001	5.E-12	2.E-10	<0.0001	<0.0001	0.004	4.E-08	<0.0001	1.E-07	6.E-08	0.0005	1.E-10	1.E-09	0.0006
Met. Location/Distance to Receptor	6.E-07	<0.0001	4.E-10	<0.0001	9.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.008	7.E-08	<0.0001	1.E-07	3.E-07	0.002	3.E-10	3.E-09	0.002
Met Location/Waste Quantity	2.E-07	<0.0001	2.E-10	<0.0001	4.E-11	<0.0001	2.E-12	8.E-11	<0.0001	<0.0001	0.003	3.E-08	<0.0001	5.E-08	1.E-07	0.0007	1.E-10	1.E-09	0.001
Met Location/Inhalation Rate	2.E-07	<0.0001	1.E-10	<0.0001	2.E-11	<0.0001	2.E-12	5.E-11	<0.0001	<0.0001	0.001	2.E-08	<0.0001	3.E-08	6.E-08	0.0003	8.E-11	6.E-10	0.0003
Distance to Receptor/Waste Quantity	<b>1.E-06</b>	<0.0001	8.E-10	<0.0001	2.E-10	<0.0001	1.E-11	5.E-10	<0.0001	<0.0001	0.02	1.E-07	<0.0001	3.E-07	7.E-07	0.003	6.E-10	4.E-09	0.005
Distance to Receptor/Inhalation Rate	8.E-07	<0.0001	5.E-10	<0.0001	1.E-10	<0.0001	1.E-11	3.E-10	<0.0001	<0.0001	0.007	8.E-08	<0.0001	2.E-07	4.E-07	0.001	4.E-10	3.E-09	0.002
Waste Quantity/Inhalation Rate	3.E-07	<0.0001	2.E-10	<0.0001	5.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.003	3.E-08	<0.0001	6.E-08	2.E-07	0.0006	1.E-10	1.E-09	0.0008

**Table H.1-6b. Risk and Sensitivity Analysis Results for Inhalation Exposure, Baltimore as High End Location  
(Tank, Non-Groundwater Deterministic) Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8-	HpCDF,1, 2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	8.E-10	7.E-11	2.E-09
<b>Single High End Parameter</b>																
Exposure Duration	NA	1.E-15	NA	3.E-11	1.E-12	NA	NA	8.E-10	NA	8.E-10	NA	5.E-10	1.E-09	4.E-09	3.E-10	7.E-09
Waste Concentration	2.E-10	3.E-16	1.E-10	2.E-11	2.E-13	3.E-11	2.E-10	3.E-10	1.E-09	7.E-10	1.E-10	4.E-10	3.E-10	7.E-09	NA	1.E-08
Meteorological Location	NA	4.E-16	NA	7.E-12	3.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	1.E-09	9.E-11	2.E-09
Distance to Receptor	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	1.E-09	NA	1.E-09	NA	7.E-10	2.E-09	5.E-09	5.E-10	1.E-08
Waste Quantity	NA	8.E-16	NA	1.E-11	5.E-13	NA	NA	4.E-10	NA	4.E-10	NA	3.E-10	7.E-10	2.E-09	2.E-10	4.E-09
Inhalation Rate	NA	4.E-16	NA	8.E-12	3.E-13	NA	NA	2.E-10	NA	2.E-10	NA	2.E-10	4.E-10	1.E-09	1.E-10	2.E-09
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	1.E-09	1.E-15	6.E-10	7.E-11	1.E-12	1.E-10	1.E-09	1.E-09	5.E-09	3.E-09	5.E-10	2.E-09	1.E-09	3.E-08	NA	5.E-08
Exposure Duration/Met. Location	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	9.E-10	NA	1.E-09	NA	7.E-10	2.E-09	5.E-09	4.E-10	9.E-09
Exposure Duration/Distance to Receptor	NA	9.E-15	NA	2.E-10	6.E-12	NA	NA	5.E-09	NA	5.E-09	NA	3.E-09	8.E-09	2.E-08	2.E-09	5.E-08
Exposure Duration/Waste Quantity	NA	4.E-15	NA	7.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	1.E-09	3.E-09	1.E-08	9.E-10	2.E-08
Exposure Duration/Inhalation Rate	NA	2.E-15	NA	4.E-11	1.E-12	NA	NA	1.E-09	NA	1.E-09	NA	8.E-10	2.E-09	6.E-09	5.E-10	1.E-08
Waste Concentration/Met. Location	1.E-10	4.E-16	2.E-10	2.E-11	3.E-13	3.E-11	3.E-10	3.E-10	1.E-09	9.E-10	1.E-10	5.E-10	3.E-10	9.E-09	NA	1.E-08
Waste Concentration/Distance to Receptor	2.E-09	2.E-15	8.E-10	1.E-10	1.E-12	2.E-10	1.E-09	2.E-09	7.E-09	4.E-09	6.E-10	3.E-09	2.E-09	4.E-08	NA	7.E-08
Waste Concentration/Waste Quantity	6.E-10	8.E-16	3.E-10	4.E-11	5.E-13	7.E-11	6.E-10	7.E-10	3.E-09	2.E-09	3.E-10	1.E-09	7.E-10	2.E-08	NA	3.E-08
Waste Concentration/Inhalation Rate	4.E-10	4.E-16	2.E-10	2.E-11	3.E-13	4.E-11	3.E-10	4.E-10	2.E-09	1.E-09	1.E-10	6.E-10	4.E-10	1.E-08	NA	2.E-08
Met. Location/Distance to Receptor	NA	2.E-15	NA	4.E-11	2.E-12	NA	NA	1.E-09	NA	1.E-09	NA	8.E-10	2.E-09	6.E-09	5.E-10	1.E-08
Met Location/Waste Quantity	NA	9.E-16	NA	2.E-11	7.E-13	NA	NA	5.E-10	NA	5.E-10	NA	3.E-10	8.E-10	2.E-09	2.E-10	5.E-09
Met Location/Inhalation Rate	NA	5.E-16	NA	1.E-11	4.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	5.E-10	1.E-09	1.E-10	3.E-09
Distance to Receptor/Waste Quantity	NA	4.E-15	NA	8.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	2.E-09	4.E-09	1.E-08	1.E-09	2.E-08
Distance to Receptor/Inhalation Rate	NA	3.E-15	NA	5.E-11	2.E-12	NA	NA	1.E-09	NA	1.E-09	NA	1.E-09	2.E-09	7.E-09	7.E-10	1.E-08
Waste Quantity/Inhalation Rate	NA	1.E-15	NA	2.E-11	8.E-13	NA	NA	6.E-10	NA	6.E-10	NA	4.E-10	1.E-09	3.E-09	3.E-10	6.E-09

**Table H.1-6c. Risk and Sensitivity analysis Results for Inhalation Exposure, Baltimore as High End Location (Tank, Non-Groundwater Deterministic), Child of Resident and Child of Farmer**

6/25/99

High End Parameter(s)	Chloroform	Ethyl chloride	Methylene chloride	Carbon disulfide	Bromoform	Methyl ethyl ketone	Trichloro ethylene	Trichloro phenol, 2,4,6-	Ethyl-benzene	Stryene	Allyl chloride	Dichloro ethane, 1,2-	Chloro-benzene	Bis(2-chlorethyl) ether	Hexachloro benzene	Chloro-1,3-butadiene, 2-	Tetrachloro ethylene	Bis (2-chloroisopropyl) ether	Mercury
Central Tendency	8.E-08	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.001	9.E-09	<0.0001	2.E-08	4.E-08	0.0002	4.E-11	3.E-10	0.0003
Single High End Parameter																			
Exposure Duration	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	7.E-11	<0.0001	<0.0001	0.001	2.E-08	<0.0001	3.E-08	9.E-08	0.0002	9.E-11	6.E-10	0.0003
Waste Concentration	3.E-07	<0.0001	5.E-11	<0.0001	1.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.004	3.E-08	<0.0001	8.E-08	4.E-08	0.0005	1.E-10	8.E-10	0.0006
Meteorological Location	1.E-07	<0.0001	6.E-11	<0.0001	2.E-11	<0.0001	1.E-12	3.E-11	<0.0001	<0.0001	0.001	1.E-08	<0.0001	2.E-08	4.E-08	0.0003	5.E-11	4.E-10	0.0003
Distance to Receptor	5.E-07	<0.0001	3.E-10	<0.0001	9.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.007	6.E-08	<0.0001	1.E-07	3.E-07	0.001	3.E-10	2.E-09	0.002
Waste Quantity	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	9.E-11	<0.0001	<0.0001	0.003	2.E-08	<0.0001	4.E-08	1.E-07	0.0006	9.E-11	7.E-10	0.0008
Inhalation Rate	1.E-07	<0.0001	9.E-11	<0.0001	2.E-11	<0.0001	2.E-12	6.E-11	<0.0001	<0.0001	0.001	2.E-08	<0.0001	3.E-08	8.E-08	0.0002	7.E-11	5.E-10	0.0003
Double High End Parameters																			
Exposure Duration/Waste Concentration	6.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	7.E-12	3.E-10	<0.0001	<0.0001	0.004	6.E-08	<0.0001	2.E-07	9.E-08	0.0005	2.E-10	2.E-09	0.0006
Exposure Duration/Met. Location	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	3.E-12	7.E-11	<0.0001	<0.0001	0.001	2.E-08	<0.0001	4.E-08	9.E-08	0.0003	1.E-10	9.E-10	0.0003
Exposure Duration/Distance to Receptor	<b>1.E-06</b>	<0.0001	7.E-10	<0.0001	2.E-10	<0.0001	2.E-11	5.E-10	<0.0001	<0.0001	0.007	1.E-07	<0.0001	2.E-07	6.E-07	0.001	5.E-10	4.E-09	0.002
Exposure Duration/Waste Quantity	4.E-07	<0.0001	3.E-10	<0.0001	7.E-11	<0.0001	4.E-12	2.E-10	<0.0001	<0.0001	0.003	4.E-08	<0.0001	9.E-08	2.E-07	0.0006	2.E-10	1.E-09	0.0008
Exposure Duration/Inhalation Rate	3.E-07	<0.0001	2.E-10	<0.0001	5.E-11	<0.0001	4.E-12	1.E-10	<0.0001	<0.0001	0.001	3.E-08	<0.0001	6.E-08	2.E-07	0.0002	2.E-10	1.E-09	0.0003
Waste Concentration/Met. Location	4.E-07	<0.0001	7.E-11	<0.0001	2.E-11	<0.0001	3.E-12	1.E-10	<0.0001	<0.0001	0.005	3.E-08	<0.0001	9.E-08	4.E-08	0.0007	1.E-10	1.E-09	0.0008
Waste Concentration/Distance to Receptor	<b>2.E-06</b>	<0.0001	3.E-10	<0.0001	9.E-11	<0.0001	2.E-11	8.E-10	<0.0001	<0.0001	0.02	2.E-07	0.0001	5.E-07	3.E-07	0.003	6.E-10	5.E-09	0.004
Waste Concentration/Waste Quantity	7.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	5.E-12	3.E-10	<0.0001	<0.0001	0.009	6.E-08	<0.0001	2.E-07	1.E-07	0.001	2.E-10	2.E-09	0.002
Waste Concentration/Inhalation Rate	5.E-07	<0.0001	9.E-11	<0.0001	3.E-11	<0.0001	6.E-12	2.E-10	<0.0001	<0.0001	0.004	5.E-08	<0.0001	1.E-07	8.E-08	0.0005	2.E-10	1.E-09	0.0006
Met. Location/Distance to Receptor	6.E-07	<0.0001	4.E-10	<0.0001	9.E-11	<0.0001	7.E-12	2.E-10	<0.0001	<0.0001	0.008	6.E-08	<0.0001	1.E-07	2.E-07	0.002	3.E-10	3.E-09	0.002
Met Location/Waste Quantity	2.E-07	<0.0001	2.E-10	<0.0001	4.E-11	<0.0001	2.E-12	8.E-11	<0.0001	<0.0001	0.003	3.E-08	<0.0001	5.E-08	1.E-07	0.0007	1.E-10	1.E-09	0.001
Met Location/Inhalation Rate	2.E-07	<0.0001	1.E-10	<0.0001	3.E-11	<0.0001	2.E-12	6.E-11	<0.0001	<0.0001	0.001	2.E-08	<0.0001	3.E-08	8.E-08	0.0003	9.E-11	8.E-10	0.0003
Distance to Receptor/Waste Quantity	<b>1.E-06</b>	<0.0001	8.E-10	<0.0001	2.E-10	<0.0001	1.E-11	5.E-10	<0.0001	<0.0001	0.02	1.E-07	<0.0001	2.E-07	7.E-07	0.003	6.E-10	4.E-09	0.005
Distance to Receptor/Inhalation Rate	9.E-07	<0.0001	6.E-10	<0.0001	2.E-10	<0.0001	1.E-11	4.E-10	<0.0001	<0.0001	0.007	1.E-07	<0.0001	2.E-07	5.E-07	0.001	5.E-10	3.E-09	0.002
Waste Quantity/Inhalation Rate	3.E-07	<0.0001	2.E-10	<0.0001	6.E-11	<0.0001	3.E-12	2.E-10	<0.0001	<0.0001	0.003	4.E-08	<0.0001	7.E-08	2.E-07	0.0006	2.E-10	1.E-09	0.0008

**Table H.1-6c. Risk and Sensitivity analysis Results for Inhalation Exposure, Baltimore as High End Location (Tank, Non-Groundwater Deterministic), Child of Resident and Child of Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1,2,3, 4,7,8,9-	PeCDF, 2,3,4,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8-	HpCDF,1, 2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	NA	3.E-16	NA	5.E-12	2.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	8.E-10	7.E-11	2.E-09
<b>Single High End Parameter</b>																
Exposure Duration	NA	6.E-16	NA	1.E-11	4.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	5.E-10	2.E-09	1.E-10	3.E-09
Waste Concentration	2.E-10	3.E-16	1.E-10	2.E-11	2.E-13	3.E-11	2.E-10	3.E-10	1.E-09	7.E-10	1.E-10	4.E-10	3.E-10	7.E-09	NA	1.E-08
Meteorological Location	NA	4.E-16	NA	7.E-12	3.E-13	NA	NA	2.E-10	NA	2.E-10	NA	1.E-10	3.E-10	1.E-09	9.E-11	2.E-09
Distance to Receptor	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	1.E-09	NA	1.E-09	NA	7.E-10	2.E-09	5.E-09	4.E-10	1.E-08
Waste Quantity	NA	7.E-16	NA	1.E-11	5.E-13	NA	NA	4.E-10	NA	4.E-10	NA	3.E-10	6.E-10	2.E-09	2.E-10	4.E-09
Inhalation Rate	NA	5.E-16	NA	9.E-12	4.E-13	NA	NA	3.E-10	NA	3.E-10	NA	2.E-10	5.E-10	1.E-09	1.E-10	3.E-09
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	5.E-10	6.E-16	3.E-10	3.E-11	4.E-13	6.E-11	5.E-10	5.E-10	2.E-09	1.E-09	2.E-10	8.E-10	5.E-10	1.E-08	NA	2.E-08
Exposure Duration/Met. Location	NA	8.E-16	NA	1.E-11	6.E-13	NA	NA	4.E-10	NA	4.E-10	NA	3.E-10	7.E-10	2.E-09	2.E-10	4.E-09
Exposure Duration/Distance to Receptor	NA	4.E-15	NA	7.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	1.E-09	3.E-09	1.E-08	9.E-10	2.E-08
Exposure Duration/Waste Quantity	NA	2.E-15	NA	3.E-11	1.E-12	NA	NA	8.E-10	NA	8.E-10	NA	6.E-10	1.E-09	4.E-09	4.E-10	8.E-09
Exposure Duration/Inhalation Rate	NA	1.E-15	NA	2.E-11	8.E-13	NA	NA	6.E-10	NA	6.E-10	NA	4.E-10	1.E-09	3.E-09	3.E-10	6.E-09
Waste Concentration/Met. Location	1.E-10	4.E-16	2.E-10	2.E-11	3.E-13	3.E-11	3.E-10	3.E-10	1.E-09	9.E-10	1.E-10	5.E-10	3.E-10	9.E-09	NA	1.E-08
Waste Concentration/Distance to Receptor	2.E-09	2.E-15	8.E-10	1.E-10	1.E-12	2.E-10	1.E-09	2.E-09	7.E-09	4.E-09	6.E-10	3.E-09	2.E-09	4.E-08	NA	7.E-08
Waste Concentration/Waste Quantity	6.E-10	7.E-16	3.E-10	4.E-11	5.E-13	7.E-11	6.E-10	6.E-10	3.E-09	2.E-09	3.E-10	1.E-09	6.E-10	2.E-08	NA	3.E-08
Waste Concentration/Inhalation Rate	4.E-10	5.E-16	2.E-10	3.E-11	4.E-13	5.E-11	4.E-10	5.E-10	2.E-09	1.E-09	2.E-10	7.E-10	5.E-10	1.E-08	NA	2.E-08
Met. Location/Distance to Receptor	NA	2.E-15	NA	4.E-11	2.E-12	NA	NA	1.E-09	NA	1.E-09	NA	8.E-10	2.E-09	6.E-09	5.E-10	1.E-08
Met Location/Waste Quantity	NA	9.E-16	NA	2.E-11	7.E-13	NA	NA	5.E-10	NA	5.E-10	NA	3.E-10	8.E-10	2.E-09	2.E-10	5.E-09
Met Location/Inhalation Rate	NA	7.E-16	NA	1.E-11	5.E-13	NA	NA	3.E-10	NA	4.E-10	NA	2.E-10	6.E-10	2.E-09	2.E-10	3.E-09
Distance to Receptor/Waste Quantity	NA	4.E-15	NA	8.E-11	3.E-12	NA	NA	2.E-09	NA	2.E-09	NA	2.E-09	4.E-09	1.E-08	1.E-09	2.E-08
Distance to Receptor/Inhalation Rate	NA	3.E-15	NA	6.E-11	2.E-12	NA	NA	2.E-09	NA	2.E-09	NA	1.E-09	3.E-09	9.E-09	8.E-10	2.E-08
Waste Quantity/Inhalation Rate	NA	1.E-15	NA	2.E-11	9.E-13	NA	NA	7.E-10	NA	7.E-10	NA	5.E-10	1.E-09	3.E-09	3.E-10	7.E-09



**Table H.1-7. Monte Carlo Non-Groundwater Risk Results  
(Tanks), Farmer and Child of Farmer**

6/25/99

Percentile	Child			Adult Farmer
	Age 1-5	Age 6-11	Age 12-19	
10	7.2E-11	7.8E-11	6.7E-11	8.0E-11
20	3.9E-10	4.1E-10	3.7E-10	4.5E-10
30	2.4E-09	2.5E-09	2.3E-09	2.8E-09
40	3.0E-08	3.4E-08	2.9E-08	3.4E-08
50	1.7E-07	1.8E-07	1.6E-07	1.9E-07
60	5.9E-07	6.3E-07	5.6E-07	6.8E-07
70	2.0E-06	2.2E-06	1.9E-06	2.4E-06
80	8.6E-06	9.3E-06	8.2E-06	1.0E-05
90	4.1E-05	4.3E-05	4.0E-05	4.9E-05
95	1.1E-04	1.1E-04	1.1E-04	1.3E-04
97.5	2.1E-04	2.2E-04	2.1E-04	2.7E-04
100	8.1E-03	9.2E-03	9.6E-03	1.6E-02

## **Appendix H.2**

### **EDC/VCM Sludge, Land Treatment Unit Scenario Exposure Point Concentrations and Risk Results**

## **Appendix H.2.1**

### **Exposure Point Concentrations**

**Table H.2-1a. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Adult Resident**

7/30/99

Constituent	CAS No.	TEF	Non-GW HE Parameters	Soil Concentration (mg/kg)	GW HE Parameters	Groundwater Concentration (mg/L)	Inhalation HE Parameters	Air Concentration (ug/m3)
Arsenic	7440-38-2		YH	7.8E-01	YQ	5.0E-04	YH	2.6E-05
Chromium VI	7440-47-3						YH	3.7E-04
TCDD, 2,3,7,8-	1746-01-6	1	YH	1.3E-06		PI	YH	1.6E-09
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	YH	3.3E-07		PI	YH	1.7E-11
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	YH	2.7E-07		PI	YH	1.5E-10
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	YH	3.8E-07		PI	YH	6.9E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	YH	1.1E-05		PI	YH	7.2E-10
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	YH	ND		ND	YH	ND
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	YH	ND		ND	YH	ND
TCDF, 2,3,7,8-	51207-31-9	0.1	YH	5.2E-07		PI	YH	5.3E-10
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	YH	5.8E-06		PI	YH	3.3E-09
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	YH	2.7E-06		PI	YH	1.6E-09
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	YH	ND		ND	YH	ND
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	YH	ND		ND	YH	ND
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	YH	3.6E-07		PI	YH	2.0E-10
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	YH	2.8E-06		PI	YH	1.5E-09
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	YH	8.9E-06		PI	YH	5.0E-09
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	YH	6.1E-06		PI	YH	3.6E-09
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	YH	ND		ND	YH	ND
TEQ				4.0E-05				1.8E-08

ND = Not detected in waste sample.

PI = Pathway incomplete - constituent did not reach the receptor well.

High End Parameters

YH - Exposure duration and waste concentration

YQ - Exposure duration and leachate concentration.

Dioxin congener concentrations expressed as TEQs.

**Table H.2-1b. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Home Gardener<sup>1</sup>**

6/25/99

Constituent	CAS No.	TEF	Non-GW HE Parameters	Fruit Concentration (mg/kg-DW)	Exposed Vegetable Concentration (mg/kg-DW)	Root Vegetable Concentration (mg/kg) <sup>2</sup>
Arsenic	7440-38-2		YH	2.8E-02	2.8E-02	6.3E-03
TCDD, 2,3,7,8-	1746-01-6	1	YH	1.2E-08	8.2E-09	2.1E-09
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	YH	3.4E-09	1.1E-09	7.1E-10
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	YH	3.5E-09	1.2E-09	2.4E-10
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	YH	1.3E-09	4.8E-10	1.4E-10
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	YH	3.1E-08	9.3E-09	4.2E-09
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	YH	ND	ND	ND
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	YH	ND	ND	ND
TCDF, 2,3,7,8-	51207-31-9	0.1	YH	5.3E-09	3.8E-09	3.1E-10
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	YH	6.8E-08	1.8E-08	3.7E-09
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	YH	4.3E-08	1.7E-08	1.4E-09
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	YH	ND	ND	ND
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	YH	ND	ND	ND
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	YH	4.7E-09	1.6E-09	3.2E-10
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	YH	1.6E-08	8.7E-09	1.5E-09
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	YH	1.0E-07	2.8E-08	5.6E-09
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	YH	3.8E-08	1.9E-08	3.1E-09
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	YH	ND	ND	ND
TEQ				3.3E-07	1.2E-07	2.3E-08

<sup>1</sup> Soil, groundwater, and air exposure point concentrations for the adult resident also apply for the gardener.

<sup>2</sup> For root vegetable concentration, organics are in wet weight (WW), metals in dry weight (DW).

ND = Not detected in waste sample.

High End Parameters

YH - Exposure duration and waste concentration.

Dioxin congener concentrations expressed as TEQs.

**Table H.2-1c. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Farmer**

7/30/99

Constituent	CAS No.	TEF	Non-GW HE Parameters	Soil Concentration (mg/kg)	Fruit Concentration (mg/kg-DW)	Exposed Vegetable Concentration (mg/kg-DW)	Root Vegetable Concentration (mg/kg) <sup>1</sup>	Beef Concentration (mg/kg-WW)	Dairy Concentration (mg/kg-WW)	GW HE Parameters	Groundwater Concentration (mg/L)	Inhalation HE Parameters	Air Concentration (ug/m3)
Arsenic	7440-38-2		YH	8.6E-01	3.1E-02	3.1E-02	6.8E-03	2.1E-03	8.1E-05	YQ	5.0E-04	YH	2.6E-05
Chromium VI	7440-47-3											YH	3.7E-04
TCDD, 2,3,7,8-	1746-01-6	1	YH	1.9E-06	1.5E-08	1.2E-08	3.1E-09	1.3E-07	2.1E-08		PI	YH	1.6E-09
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	YH	5.0E-07	3.7E-09	1.4E-09	1.1E-09	5.9E-09	9.3E-10		PI	YH	1.7E-11
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	YH	4.1E-07	3.8E-09	1.5E-09	3.7E-10	2.0E-08	5.3E-09		PI	YH	1.5E-10
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	YH	5.8E-07	1.4E-09	6.2E-10	2.2E-10	2.7E-09	4.8E-10		PI	YH	6.9E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	YH	1.6E-05	3.2E-08	1.1E-08	6.3E-09	6.3E-08	1.3E-08		PI	YH	7.2E-10
HxCDF, 1,2,3,4,7,8-	39227-28-6	0.1	YH	ND	ND	ND	ND	ND	ND		ND	YH	ND
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	YH	ND	ND	ND	ND	ND	ND		ND	YH	ND
TCDF, 2,3,7,8-	51207-31-9	0.1	YH	7.7E-07	7.0E-09	5.4E-09	4.6E-10	7.6E-09	2.7E-09		PI	YH	5.3E-10
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	YH	8.8E-06	7.1E-08	2.1E-08	5.5E-09	1.5E-07	5.7E-08		PI	YH	3.3E-09
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	YH	4.1E-06	4.8E-08	2.2E-08	2.1E-09	3.8E-07	9.0E-08		PI	YH	1.6E-09
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	YH	ND	ND	ND	ND	ND	ND		ND	YH	ND
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	YH	ND	ND	ND	ND	ND	ND		ND	YH	ND
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	YH	5.4E-07	5.1E-09	2.0E-09	4.9E-10	2.7E-08	5.9E-09		PI	YH	2.0E-10
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	YH	4.3E-06	2.0E-08	1.2E-08	2.2E-09	1.2E-07	2.1E-08		PI	YH	1.5E-09
HpCDF, 1,2,3,4,6,7,8,-	67562-39-4	0.01	YH	1.4E-05	1.1E-07	3.3E-08	8.5E-09	1.3E-07	2.9E-08		PI	YH	5.0E-09
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	YH	9.2E-06	4.6E-08	2.6E-08	4.7E-09	3.5E-07	7.0E-08		PI	YH	3.6E-09
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	YH	ND	ND	ND	ND	ND	ND		ND	YH	ND
TEQ				6.1E-05	3.6E-07	1.5E-07	3.5E-08	1.4E-06	3.2E-07				1.8E-08

<sup>1</sup> For root vegetable concentration, organics are in wet weight (WW), metals in dry weight (DW).

ND = Not detected in waste sample.

PI = Pathway incomplete - constituent did not reach the receptor well.

High End Parameters

YH - Exposure duration and waste concentration

YQ - Exposure duration and Leachate Concentration.

Dioxin congener concentrations expressed as TEQs.

**Table H.2-1d. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Fisher<sup>1</sup>**

6/25/99

Constituent	CAS No.	TEF	Non-GW HE Parameters	Dissolved Water Concentration (mg/L) <sup>2</sup>	Concentration Sorbed to Bed Sediments (mg/kg) <sup>2</sup>	Fish Concentration due to Air Dep. and Runoff (mg/kg)
Arsenic	7440-38-2		YD	1.3E-03		4.5E-03
TCDD, 2,3,7,8-	1746-01-6	1	YH		1.2E-05	1.1E-06
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	YH		3.2E-06	3.4E-10
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	YH		2.6E-06	1.1E-07
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	YH		3.7E-06	1.9E-08
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	YH		1.0E-04	1.1E-08
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	YH		ND	ND
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	YH		ND	ND
TCDF, 2,3,7,8-	51207-31-9	0.1	YH		4.9E-06	4.6E-07
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	YH		5.6E-05	2.9E-07
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	YH		2.6E-05	2.4E-06
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	YH		ND	ND
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	YH		ND	ND
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	YH		3.5E-06	1.4E-07
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	YH		2.7E-05	1.1E-06
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	YH		8.6E-05	4.5E-07
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	YH		5.9E-05	2.4E-06
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	YH		ND	ND
TEQ					3.9E-04	8.6E-06

<sup>1</sup> Soil, groundwater, and air exposure point concentrations for the adult resident also apply for the fisher.

<sup>2</sup> For arsenic the dissolved water concentration is used to determine the fish concentration,

dioxins use concentrations sorbed to bed sediments.

ND = Not detected in waste sample.

High End Parameters

YD - Exposure duration & fish Concentration

YH - Exposure duration & waste concentration

YQ - Exposure duration and leachate concentration.

Dioxin congener concentrations expressed as TEQs.

**Table H.2-1e. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Child of Resident**

6/25/99

Constituent	CAS No.	TEF	Non-GW HE Parameters	Soil Concentration (mg/kg)	GW HE Parameters	Groundwater Concentration (mg/L)	Inhalation HE Parameters	Air Concentration (ug/m3)
Arsenic	7440-38-2		HK	7.8E-01	YQ	5.0E-04	YM	2.6E-05
Chromium VI	7440-47-3						YM	3.4E-04
TCDD, 2,3,7,8-	1746-01-6	1	HK	1.3E-06		PI		ND
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	HK	3.3E-07		PI	YM	1.5E-11
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	HK	2.7E-07		PI	YM	3.3E-11
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	HK	3.8E-07		PI	YM	5.3E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	HK	1.1E-05		PI	YM	9.5E-11
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	HK	NA		ND	YM	3.3E-11
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	HK	NA		ND		ND
TCDF, 2,3,7,8-	51207-31-9	0.1	HK	5.2E-07		PI	YM	1.0E-11
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	HK	5.8E-06		PI	YM	2.5E-10
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	HK	2.7E-06		PI	YM	3.5E-10
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	HK	NA		ND	YM	3.0E-11
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	HK	NA		ND	YM	4.0E-10
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	HK	3.6E-07		PI	YM	4.6E-11
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	HK	2.8E-06		PI	YM	4.1E-10
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	HK	8.9E-06		PI	YM	1.3E-09
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	HK	6.1E-06		PI	YM	6.8E-10
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	HK	NA		ND	YM	2.2E-10
TEQ				4.0E-05				3.9E-09

ND = Not detected in waste sample.

PI = Pathway incomplete - constituent did not reach the receptor well.

High End Parameters

HK - Waste concentration and soil intake

YQ - Exposure duration and leachate concentration

YM - Exposure duration and distance to receptor.

Dioxin congener concentrations expressed as TEQs.



**Table H.2-1f. High End Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Child of Farmer**

6/25/99

Constituent	CAS No.	TEF	Non-GW HE Parameters	Soil Concentration (mg/kg)	Fruit Concentration (mg/kg-DW)	Exposed Vegetable Concentration (mg/kg-DW)	Root Vegetable Concentration (mg/kg) <sup>1</sup>	Beef Concentration (mg/kg-WW)	Dairy Concentration (mg/kg-WW)	GW HE Parameters	Groundwater Concentration (mg/L)	Inhalation HE Parameters	Air Concentration (ug/m3)
Arsenic	7440-38-2		YH	7.8E-01	3.1E-02	3.1E-02	6.8E-03	2.1E-03	8.1E-05	YQ	5.0E-04	YM	2.6E-05
Chromium VI	7440-47-3											YM	3.4E-04
TCDD, 2,3,7,8-	1746-01-6	1	HM	1.3E-06	2.6E-08	1.5E-08	3.4E-09	2.5E-07	4.6E-08		PI		ND
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	HM	3.2E-07	8.5E-09	2.4E-09	1.2E-09	1.2E-08	2.1E-09		PI	YM	1.5E-11
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	HM	2.6E-07	9.1E-09	2.6E-09	4.0E-10	4.7E-08	1.3E-08		PI	YM	3.3E-11
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	HM	3.7E-07	3.1E-09	1.0E-09	2.4E-10	4.5E-09	9.0E-10		PI	YM	5.3E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	HM	1.1E-05	7.7E-08	2.1E-08	6.9E-09	1.0E-07	2.4E-08		PI	YM	9.5E-11
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	HM	ND	ND	ND	ND	ND	ND		ND	YM	3.3E-11
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	HM	ND	ND	ND	ND	ND	ND		ND		ND
TCDF, 2,3,7,8-	51207-31-9	0.1	HM	5.0E-07	1.2E-08	6.8E-09	5.1E-10	1.5E-08	5.9E-09		PI	YM	1.0E-11
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	HM	5.7E-06	1.9E-07	4.4E-08	6.1E-09	3.4E-07	1.4E-07		PI	YM	2.5E-10
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	HM	2.6E-06	1.1E-07	3.5E-08	2.3E-09	8.9E-07	2.3E-07		PI	YM	3.5E-10
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	HM	ND	ND	ND	ND	ND	ND		ND	YM	3.0E-11
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	HM	ND	ND	ND	ND	ND	ND		ND	YM	4.0E-10
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	HM	3.5E-07	1.2E-08	3.5E-09	5.4E-10	6.3E-08	1.5E-08		PI	YM	4.6E-11
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	HM	2.8E-06	3.9E-08	1.7E-08	2.4E-09	2.1E-07	4.4E-08		PI	YM	4.1E-10
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	HM	8.7E-06	2.8E-07	6.8E-08	9.3E-09	3.1E-07	7.2E-08		PI	YM	1.3E-09
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	HM	5.9E-06	9.2E-08	3.8E-08	5.2E-09	6.6E-07	1.5E-07		PI	YM	6.8E-10
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	HM	ND	ND	ND	ND	ND	ND		ND	YM	2.2E-10
TEQ				3.9E-05	8.6E-07	2.5E-07	3.8E-08	2.9E-06	7.4E-07				3.9E-09

<sup>1</sup> For root vegetable concentration, organics are in wet weight (WW), metals in dry weight (DW)

ND = Not detected in waste sample.

PI = Pathway incomplete - constituent did not reach the receptor well.

High End Parameters

HM - Waste concentration and distance to receptor

YH - Exposure duration and waste concentration

YM - Exposure duration and distance to receptor

YQ - Exposure duration and leachate concentration.

Dioxin congener concentrations expressed as TEQs.

**Table H.2-2a. Central Tendency Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Adult and Child Resident**

6/25/99

Constituent	CAS No.	TEF	Soil Concentration (mg/kg)	Groundwater Concentration (mg/L)	Air Concentration (ug/m3)
Arsenic	7440-38-2		3.0E-01	1.9E-04	9.9E-06
Chromium VI	7440-47-3				1.3E-04
TCDD, 2,3,7,8-	1746-01-6	1	ND	ND	ND
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	1.1E-07	PI	5.8E-12
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	2.4E-08	PI	1.5E-11
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	1.1E-07	PI	2.2E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	5.5E-07	PI	3.8E-11
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	3.9E-08	PI	1.4E-11
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	ND	ND	ND
TCDF, 2,3,7,8-	51207-31-9	0.1	3.9E-09	PI	5.2E-12
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	1.8E-07	PI	1.1E-10
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	2.3E-07	PI	1.6E-10
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	1.7E-08	PI	1.4E-11
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	3.8E-07	PI	1.7E-10
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	3.4E-08	PI	2.1E-11
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	3.2E-07	PI	1.8E-10
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	9.1E-07	PI	5.8E-10
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	4.6E-07	PI	3.1E-10
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	1.7E-07	PI	9.8E-11
TEQ			3.5E-06		1.7E-09

ND = Not detected in waste.

PI = Pathway incomplete - constituent did not reach the receptor well.

Dioxin congener concentrations expressed as TEQs.

**Table H.2-2b. Central Tendency Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Home Gardener<sup>1</sup>**

6/25/99

Constituent	CAS No.	TEF	Fruit Concentration (mg/kg-DW)	Exposed Vegetable Concentration (mg/kg-DW)	Root Vegetable Concentration (mg/kg) <sup>2</sup>
Arsenic	7440-38-2		1.1E-02	1.1E-02	2.4E-03
TCDD, 2,3,7,8-	1746-01-6	1	ND	ND	ND
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	1.2E-09	3.8E-10	2.4E-10
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	3.5E-10	1.1E-10	2.2E-11
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	4.0E-10	1.5E-10	4.3E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	1.6E-09	4.8E-10	2.1E-10
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1	3.2E-10	1.0E-10	2.6E-11
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	ND	ND	ND
TCDF, 2,3,7,8-	51207-31-9	0.1	4.5E-11	2.9E-11	2.3E-12
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	2.3E-09	6.0E-10	1.1E-10
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	4.1E-09	1.5E-09	1.2E-10
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	3.6E-10	1.3E-10	1.9E-11
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	2.1E-09	1.1E-09	2.0E-10
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	4.8E-10	1.6E-10	3.0E-11
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	2.0E-09	9.9E-10	1.6E-10
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	1.2E-08	3.1E-09	5.7E-10
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	3.2E-09	1.5E-09	2.4E-10
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	1.1E-09	5.3E-10	8.8E-11
TEQ			3.1E-08	1.1E-08	2.1E-09

<sup>1</sup> Soil, groundwater, and air exposure point concentrations for the resident also apply for the gardener.

<sup>2</sup> For root vegetable concentration, organics are in wet weight (WW), metals in dry weight (DW).

ND = Not detected in waste.

Dioxin congener concentrations expressed as TEQs.

**Table H.2-2c. Central Tendency Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Farmer**

6/25/99

Constituent	CAS No.	TEF	Soil Concentration (mg/kg)	Fruit Concentration (mg/kg-DW)	Exposed Vegetable Concentration (mg/kg-DW)	Root Vegetable Concentration (mg/kg) <sup>1</sup>	Beef Concentration (mg/kg-WW)	Dairy Concentration (mg/kg-WW)	Groundwater Concentration (mg/L)	Air Concentration (ug/m3)
Arsenic	7440-38-2		3.2E-01	1.2E-02	1.2E-02	2.6E-03	7.8E-04	3.1E-05	1.9E-04	9.9E-06
Chromium VI	7440-47-3									1.3E-04
TCDD, 2,3,7,8-	1746-01-6	1	ND	ND	ND	ND	ND	ND	ND	ND
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	1.7E-07	1.3E-09	4.8E-10	3.7E-10	2.1E-09	3.3E-10	PI	5.8E-12
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	3.7E-08	3.8E-10	1.4E-10	3.3E-11	2.0E-09	5.3E-10	PI	1.5E-11
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	1.7E-07	4.4E-10	1.9E-10	6.5E-11	8.4E-10	1.5E-10	PI	2.2E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	8.4E-07	1.7E-09	5.7E-10	3.2E-10	3.2E-09	6.8E-10	PI	3.8E-11
HxCDF, 1,2,3,4,7,8-	39227-28-6	0.1	6.0E-08	3.5E-10	1.3E-10	3.9E-11	2.3E-09	5.5E-10	PI	1.4E-11
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	ND	ND	ND	ND	ND	ND	ND	ND
TCDF, 2,3,7,8-	51207-31-9	0.1	5.9E-09	5.7E-11	4.2E-11	3.5E-12	6.5E-11	2.3E-11	PI	5.2E-12
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	2.7E-07	2.4E-09	7.0E-10	1.7E-10	4.9E-09	1.9E-09	PI	1.1E-10
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	3.5E-07	4.5E-09	2.0E-09	1.7E-10	3.6E-08	8.6E-09	PI	1.6E-10
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	2.6E-08	4.0E-10	1.7E-10	2.9E-11	6.0E-10	1.6E-10	PI	1.4E-11
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	5.8E-07	2.5E-09	1.6E-09	3.0E-10	1.5E-08	3.2E-09	PI	1.7E-10
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	5.1E-08	5.3E-10	2.0E-10	4.6E-11	2.8E-09	6.2E-10	PI	2.1E-11
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	4.8E-07	2.3E-09	1.4E-09	2.5E-10	1.3E-08	2.5E-09	PI	1.8E-10
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	1.4E-06	1.2E-08	3.6E-09	8.6E-10	1.5E-08	3.3E-09	PI	5.8E-10
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	7.0E-07	3.7E-09	2.1E-09	3.6E-10	2.8E-08	5.7E-09	PI	3.1E-10
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	2.6E-07	1.3E-09	7.4E-10	1.3E-10	7.3E-09	1.7E-09	PI	9.8E-11
TEQ			5.4E-06	3.4E-08	1.4E-08	3.2E-09	1.3E-07	3.0E-08		1.7E-09

<sup>1</sup> For root vegetable concentration, organics are in wet weight (WW), metals in dry weight (DW).

ND = Not detected in waste.

PI = Pathway incomplete - constituent did not reach the receptor well.

Dioxin congener concentrations expressed as TEQs.

**Table H.2-2d. Central Tendency Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Fisher<sup>1</sup>**

6/25/99

Constituent	CAS No.	TEF	Non-Groundwater Pathways		
			Dissolved Water Concentration (mg/L) <sup>2</sup>	Concentration Sorbed to Bed Sediments (mg/kg) <sup>2</sup>	Fish Concentration due to Air Dep. and Runoff (mg/kg)
Arsenic	7440-38-2		1.3E-03		4.5E-03
TCDD, 2,3,7,8-	1746-01-6	1		ND	ND
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001		1.1E-06	1.1E-10
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1		2.3E-07	9.7E-09
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01		1.1E-06	5.8E-09
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001		5.3E-06	5.6E-10
HxCDD, 1,2,3,4,7,8-	39227-28-6	0.1		3.8E-07	1.6E-08
PeCDD, 1,2,3,7,8-	40321-76-4	0.5		ND	ND
TCDF, 2,3,7,8-	51207-31-9	0.1		3.7E-08	3.5E-09
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01		1.7E-06	8.9E-09
PeCDF, 2,3,4,7,8-	57117-31-4	0.5		2.2E-06	2.1E-07
PeCDF, 1,2,3,7,8-	57117-41-6	0.05		1.6E-07	1.5E-08
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1		3.7E-06	1.5E-07
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1		3.3E-07	1.4E-08
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1		3.0E-06	1.3E-07
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01		8.7E-06	4.5E-08
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1		4.4E-06	1.8E-07
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1		1.6E-06	6.9E-08
TEQ				3.4E-05	8.6E-07

<sup>1</sup> Soil, groundwater, and air exposure point concentrations for the resident also apply for the gardener.

<sup>2</sup> For arsenic the dissolved water concentration is used to determine the fish concentration, dioxins use concentration sorbed to bed sediments. Dioxin congener concentrations expressed as TEQs.

**Table H.2-2e. Central Tendency Exposure Point Concentrations for Constituents for which Deterministic Risk Estimates are 1E-06 or Greater (EDC/VCM LTU), Child of Farmer**

6/25/99

Constituent	CAS No.	TEF	Soil Concentration (mg/kg)	Fruit Concentration (mg/kg-DW)	Exposed Vegetable Concentration (mg/kg-DW)	Root Vegetable Concentration (mg/kg) <sup>1</sup>	Beef Concentration (mg/kg-WW)	Dairy Concentration (mg/kg-WW)	Groundwater Concentration (mg/L)	Air Concentration (ug/m3)
Arsenic	7440-38-2		3.0E-01	1.2E-02	1.2E-02	2.6E-03	7.8E-04	3.1E-05	1.9E-04	9.9E-06
Chromium VI	7440-47-3									1.3E-04
TCDD, 2,3,7,8-	1746-01-6	1	ND	ND	ND	ND	ND	ND	ND	ND
OCDD, 1,2,3,4,5,7,8,9-	3268-87-9	0.001	1.1E-07	1.3E-09	4.8E-10	3.7E-10	2.1E-09	3.3E-10	PI	5.8E-12
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.1	2.4E-08	3.8E-10	1.4E-10	3.3E-11	2.0E-09	5.3E-10	PI	1.5E-11
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	0.01	1.1E-07	4.4E-10	1.9E-10	6.5E-11	8.4E-10	1.5E-10	PI	2.2E-11
OCDF, 1,2,3,4,6,7,8,9-	39001-02-0	0.001	5.5E-07	1.7E-09	5.7E-10	3.2E-10	3.2E-09	6.8E-10	PI	3.8E-11
HxCDF, 1,2,3,4,7,8-	39227-28-6	0.1	3.9E-08	3.5E-10	1.3E-10	3.9E-11	2.3E-09	5.5E-10	PI	1.4E-11
PeCDD, 1,2,3,7,8-	40321-76-4	0.5	ND	ND	ND	ND	ND	ND	ND	ND
TCDF, 2,3,7,8-	51207-31-9	0.1	3.9E-09	5.7E-11	4.2E-11	3.5E-12	6.5E-11	2.3E-11	PI	5.2E-12
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.01	1.8E-07	2.4E-09	7.0E-10	1.7E-10	4.9E-09	1.9E-09	PI	1.1E-10
PeCDF, 2,3,4,7,8-	57117-31-4	0.5	2.3E-07	4.5E-09	2.0E-09	1.7E-10	3.6E-08	8.6E-09	PI	1.6E-10
PeCDF, 1,2,3,7,8-	57117-41-6	0.05	1.7E-08	4.0E-10	1.7E-10	2.9E-11	6.0E-10	1.6E-10	PI	1.4E-11
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.1	3.8E-07	2.5E-09	1.6E-09	3.0E-10	1.5E-08	3.2E-09	PI	1.7E-10
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.1	3.4E-08	5.3E-10	2.0E-10	4.6E-11	2.8E-09	6.2E-10	PI	2.1E-11
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.1	3.2E-07	2.3E-09	1.4E-09	2.5E-10	1.3E-08	2.5E-09	PI	1.8E-10
HpCDF, 1,2,3,4,6,7,8-	67562-39-4	0.01	9.1E-07	1.2E-08	3.6E-09	8.6E-10	1.5E-08	3.3E-09	PI	5.8E-10
HxCDF, 1,2,3,4,7,8-	70648-26-9	0.1	4.6E-07	3.7E-09	2.1E-09	3.6E-10	2.8E-08	5.7E-09	PI	3.1E-10
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.1	1.7E-07	1.3E-09	7.4E-10	1.3E-10	7.3E-09	1.7E-09	PI	9.8E-11
TEQ			3.5E-06	3.4E-08	1.4E-08	3.2E-09	1.3E-07	3.0E-08		1.7E-09

<sup>1</sup> For root vegetable concentration, organics are in wet weight (WW), metals in dry weight (DW).

ND = Not detected in waste.

PI = Pathway incomplete - constituent did not reach the receptor well.

Dioxin congener concentrations expressed as TEQs.

## **Appendix H.2.2**

### **Non-Groundwater Pathway Risk Results**

**Table H.2-3a. Risk And Sensitivity Analysis Results for Ingestion Exposure  
(EDC/VCM LTU, Non-Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachloro benzene	Tetrachloro ethylene
<b>Central Tendency</b>	<0.0001	<0.0001	3.E-19	2.E-19	2.E-20	<0.0001	<0.0001	2.E-20	4.E-21	5.E-18	<0.0001	8.E-15	2.E-13	5.E-12	2.E-19
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	9.E-19	8.E-19	5.E-20	<0.0001	<0.0001	7.E-20	1.E-20	2.E-17	<0.0001	3.E-14	7.E-13	2.E-11	6.E-19
Waste Concentration	<0.0001	<0.0001	1.E-18	4.E-19	3.E-20	<0.0001	<0.0001	2.E-20	5.E-21	2.E-17	<0.0001	1.E-14	5.E-13	5.E-12	4.E-19
Distance to Receptor	<0.0001	<0.0001	3.E-19	3.E-19	2.E-20	<0.0001	<0.0001	3.E-20	4.E-21	6.E-18	<0.0001	9.E-15	2.E-13	5.E-12	2.E-19
<b>Double High End Parameters</b>															
Exposure Duration/Waste Concentration	<0.0001	<0.0001	3.E-18	1.E-18	1.E-19	<0.0001	<0.0001	8.E-20	2.E-20	6.E-17	<0.0001	4.E-14	2.E-12	2.E-11	1.E-18
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	1.E-18	1.E-18	6.E-20	<0.0001	<0.0001	9.E-20	1.E-20	2.E-17	<0.0001	3.E-14	7.E-13	2.E-11	8.E-19
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	1.E-18	5.E-19	4.E-20	<0.0001	<0.0001	3.E-20	6.E-21	2.E-17	<0.0001	2.E-14	5.E-13	5.E-12	5.E-19



**Table H.2-3a. Risk And Sensitivity Analysis Results for Ingestion Exposure  
(EDC/VCM LTU, Non-Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6, 7,8,-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8	PeCDD, 1,2,3,7,8-	TCDF, 2,3,7,8-	HpCDF, 1,2,3,4,7,8,9-	PeCDF, 2,3,4,7,8-	PeCDF, 1,2,3,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8-	HpCDF, 1,2,3,4,6,7, ,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	NA	2.E-09	3.E-10	2.E-09	8.E-09	5.E-10	NA	5.E-11	2.E-09	3.E-09	2.E-10	5.E-09	5.E-10	4.E-09	1.E-08	6.E-09	2.E-09	5.E-08
<b>Single High End Parameter</b>																		
Exposure Duration	NA	5.E-09	1.E-09	5.E-09	3.E-08	2.E-09	NA	2.E-10	8.E-09	1.E-08	8.E-10	2.E-08	2.E-09	1.E-08	4.E-08	2.E-08	8.E-09	2.E-07
Waste Concentration	2.E-08	5.E-09	4.E-09	5.E-09	1.E-07	NA	NA	7.E-09	8.E-08	4.E-08	NA	NA	5.E-09	4.E-08	1.E-07	8.E-08	NA	6.E-07
Distance to Receptor	NA	2.E-09	3.E-10	2.E-09	7.E-09	5.E-10	NA	5.E-11	2.E-09	3.E-09	2.E-10	5.E-09	5.E-10	4.E-09	1.E-08	6.E-09	2.E-09	5.E-08
<b>Double High End Parameters</b>																		
Exposure Duration/Waste Concentration	6.E-08	2.E-08	1.E-08	2.E-08	5.E-07	NA	NA	2.E-08	3.E-07	1.E-07	NA	NA	2.E-08	1.E-07	4.E-07	3.E-07	NA	2.E-06
Exposure Duration/Distance to Receptor	NA	5.E-09	1.E-09	5.E-09	2.E-08	2.E-09	NA	2.E-10	8.E-09	1.E-08	8.E-10	2.E-08	2.E-09	1.E-08	4.E-08	2.E-08	8.E-09	2.E-07
Waste Concentration/Distance to Receptor	2.E-08	4.E-09	4.E-09	5.E-09	1.E-07	NA	NA	7.E-09	8.E-08	4.E-08	NA	NA	5.E-09	4.E-08	1.E-07	8.E-08	NA	5.E-07

**Table H.2-3a. Risk And Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Adult Resident**

6/25/99

High End Parameter(s)	Manganese	Molybdenum	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Cobalt	Copper	Vanadium	Zinc
<b>Central Tendency</b>	<0.0001	<0.0001	<0.0001	4.E-08	<0.0001	<0.0001	0.001	<0.0001	NA	<0.0001	<0.0001
<b>Single High End Parameter</b>											
Exposure Duration	<0.0001	<0.0001	<0.0001	1.E-07	<0.0001	<0.0001	0.001	<0.0001	NA	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	0.0001	1.E-07	<0.0001	<0.0001	0.003	<0.0001	NA	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	<0.0001	4.E-08	<0.0001	<0.0001	0.001	<0.0001	NA	<0.0001	<0.0001
<b>Double High End Parameters</b>											
Exposure Duration/Waste Concentration	<0.0001	<0.0001	0.0001	3.E-07	<0.0001	<0.0001	0.003	<0.0001	NA	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	<0.0001	1.E-07	<0.0001	<0.0001	0.001	<0.0001	NA	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	0.0001	1.E-07	<0.0001	<0.0001	0.003	<0.0001	NA	<0.0001	<0.0001

**Table H.2-3b. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Gardener**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachloro benzene	Tetrachloro ethylene
<b>Central Tendency</b>	<0.0001	<0.0001	4.E-16	7.E-15	6.E-17	<0.0001	<0.0001	1.E-17	5.E-17	6.E-15	<0.0001	3.E-12	2.E-12	9.E-12	2.E-16
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	9.E-12	6.E-12	3.E-11	7.E-16
Exposed Veg. Intake	<0.0001	<0.0001	9.E-16	1.E-14	1.E-16	<0.0001	<0.0001	3.E-17	1.E-16	1.E-14	<0.0001	7.E-12	3.E-12	1.E-11	4.E-16
Root Veg. Intake	<0.0001	<0.0001	4.E-16	7.E-15	6.E-17	<0.0001	<0.0001	1.E-17	5.E-17	6.E-15	<0.0001	3.E-12	2.E-12	1.E-11	2.E-16
Fruit Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	1.E-16	2.E-14	<0.0001	6.E-12	5.E-12	1.E-11	6.E-16
Waste Concentration	<0.0001	<0.0001	2.E-15	1.E-14	1.E-16	<0.0001	<0.0001	1.E-17	7.E-17	2.E-14	<0.0001	4.E-12	4.E-12	9.E-12	4.E-16
Distance to Receptor	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	1.E-16	2.E-14	<0.0001	4.E-12	4.E-12	1.E-11	6.E-16
<b>Double High End Parameters</b>															
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	3.E-15	5.E-14	5.E-16	<0.0001	<0.0001	9.E-17	4.E-16	5.E-14	<0.0001	2.E-11	8.E-12	5.E-11	1.E-15
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	1.E-11	6.E-12	3.E-11	7.E-16
Exposure Duration/Fruit Intake	<0.0001	<0.0001	4.E-15	6.E-14	6.E-16	<0.0001	<0.0001	1.E-16	5.E-16	6.E-14	<0.0001	2.E-11	2.E-11	4.E-11	2.E-15
Exposure Duration/Waste Concentration	<0.0001	<0.0001	5.E-15	4.E-14	5.E-16	<0.0001	<0.0001	5.E-17	2.E-16	8.E-14	<0.0001	1.E-11	1.E-11	3.E-11	1.E-15
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	4.E-15	6.E-14	6.E-16	<0.0001	<0.0001	1.E-16	5.E-16	5.E-14	<0.0001	1.E-11	1.E-11	3.E-11	2.E-15
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	9.E-16	1.E-14	1.E-16	<0.0001	<0.0001	3.E-17	1.E-16	1.E-14	<0.0001	7.E-12	3.E-12	2.E-11	4.E-16
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	5.E-17	2.E-16	2.E-14	<0.0001	1.E-11	6.E-12	2.E-11	8.E-16
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	3.E-15	2.E-14	3.E-16	<0.0001	<0.0001	3.E-17	1.E-16	5.E-14	<0.0001	1.E-11	7.E-12	1.E-11	9.E-16
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	2.E-15	4.E-14	4.E-16	<0.0001	<0.0001	8.E-17	3.E-16	4.E-14	<0.0001	9.E-12	6.E-12	2.E-11	1.E-15
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	1.E-16	2.E-14	<0.0001	7.E-12	5.E-12	1.E-11	6.E-16
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	2.E-15	1.E-14	1.E-16	<0.0001	<0.0001	1.E-17	7.E-17	2.E-14	<0.0001	5.E-12	4.E-12	1.E-11	4.E-16
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	1.E-16	2.E-14	<0.0001	4.E-12	4.E-12	1.E-11	6.E-16
Fruit Intake/Waste Concentration	<0.0001	<0.0001	4.E-15	3.E-14	4.E-16	<0.0001	<0.0001	4.E-17	2.E-16	7.E-14	<0.0001	1.E-11	1.E-11	1.E-11	1.E-15
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	3.E-15	5.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	9.E-12	1.E-11	2.E-11	2.E-15
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	4.E-15	3.E-14	4.E-16	<0.0001	<0.0001	4.E-17	2.E-16	6.E-14	<0.0001	6.E-12	1.E-11	1.E-11	1.E-15

**Table H.2-3b. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Gardener**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7, 8,-	OCDF, 1,2,3,4,6,7,8 9-	HxCDD, 1,2,3,4,7,8-	PeCDD, 1,2,3,7,8-	TCDF, 2,3,7,8-	HpCDF, 1,2,3,4,7,8, 9-	PeCDF, 2,3,4,7,8-	PeCDF, 1,2,3,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF, 1,2,3,4,6,7,8	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9	TEQ
Central Tendency	NA	2.E-09	5.E-10	2.E-09	8.E-09	7.E-10	NA	8.E-11	3.E-09	5.E-09	4.E-10	6.E-09	7.E-10	5.E-09	2.E-08	8.E-09	3.E-09	6.E-08
Single High End Parameter																		
Exposure Duration	NA	8.E-09	2.E-09	6.E-09	3.E-08	2.E-09	NA	3.E-10	1.E-08	2.E-08	1.E-09	2.E-08	2.E-09	2.E-08	6.E-08	3.E-08	1.E-08	2.E-07
Exposed Veg. Intake	NA	3.E-09	6.E-10	2.E-09	9.E-09	8.E-10	NA	1.E-10	4.E-09	6.E-09	5.E-10	7.E-09	8.E-10	6.E-09	2.E-08	9.E-09	3.E-09	7.E-08
Root Veg. Intake	NA	3.E-09	6.E-10	2.E-09	9.E-09	8.E-10	NA	9.E-11	4.E-09	5.E-09	5.E-10	7.E-09	8.E-10	6.E-09	2.E-08	9.E-09	3.E-09	7.E-08
Fruit Intake	NA	3.E-09	7.E-10	2.E-09	1.E-08	9.E-10	NA	1.E-10	5.E-09	8.E-09	6.E-10	8.E-09	1.E-09	7.E-09	3.E-08	1.E-08	4.E-09	8.E-08
Waste Concentration	3.E-08	7.E-09	5.E-09	6.E-09	2.E-07	NA	NA	1.E-08	1.E-07	6.E-08	NA	NA	7.E-09	5.E-08	2.E-07	1.E-07	NA	7.E-07
Distance to Receptor	NA	3.E-09	6.E-10	2.E-09	9.E-09	8.E-10	NA	8.E-11	4.E-09	6.E-09	5.E-10	7.E-09	8.E-10	6.E-09	2.E-08	9.E-09	3.E-09	7.E-08
Double High End Parameters																		
Exposure Duration/Exposed Veg. Intake	NA	9.E-09	2.E-09	6.E-09	3.E-08	3.E-09	NA	3.E-10	1.E-08	2.E-08	2.E-09	2.E-08	3.E-09	2.E-08	6.E-08	3.E-08	1.E-08	2.E-07
Exposure Duration/Root Veg. Intake	NA	1.E-08	2.E-09	6.E-09	3.E-08	3.E-09	NA	3.E-10	1.E-08	2.E-08	1.E-09	2.E-08	3.E-09	2.E-08	6.E-08	3.E-08	1.E-08	2.E-07
Exposure Duration/Fruit Intake	NA	1.E-08	2.E-09	7.E-09	3.E-08	3.E-09	NA	3.E-10	2.E-08	2.E-08	2.E-09	3.E-08	3.E-09	2.E-08	8.E-08	3.E-08	1.E-08	3.E-07
Exposure Duration/Waste Concentration	9.E-08	2.E-08	2.E-08	2.E-08	5.E-07	NA	NA	3.E-08	4.E-07	2.E-07	NA	NA	2.E-08	2.E-07	5.E-07	3.E-07	NA	2.E-06
Exposure Duration/Distance to Receptor	NA	9.E-09	2.E-09	6.E-09	3.E-08	3.E-09	NA	3.E-10	1.E-08	2.E-08	2.E-09	2.E-08	3.E-09	2.E-08	7.E-08	3.E-08	1.E-08	2.E-07
Exposed Veg. Intake/ Root Veg. Intake	NA	4.E-09	7.E-10	2.E-09	1.E-08	9.E-10	NA	1.E-10	4.E-09	7.E-09	6.E-10	8.E-09	9.E-10	7.E-09	2.E-08	1.E-08	4.E-09	8.E-08
Exposed Veg. Intake/ Fruit Intake	NA	4.E-09	8.E-10	2.E-09	1.E-08	1.E-09	NA	1.E-10	6.E-09	9.E-09	8.E-10	9.E-09	1.E-09	8.E-09	3.E-08	1.E-08	4.E-09	9.E-08
Exposed Veg. Intake/Waste Concentration	3.E-08	8.E-09	6.E-09	6.E-09	2.E-07	NA	NA	1.E-08	1.E-07	7.E-08	NA	NA	9.E-09	6.E-08	2.E-07	1.E-07	NA	8.E-07
Exposed Veg. Intake/Distance to Receptor	NA	3.E-09	8.E-10	2.E-09	1.E-08	1.E-09	NA	1.E-10	5.E-09	8.E-09	7.E-10	8.E-09	1.E-09	7.E-09	3.E-08	1.E-08	4.E-09	9.E-08
Root Veg. Intake/Fruit Intake	NA	4.E-09	8.E-10	2.E-09	1.E-08	1.E-09	NA	1.E-10	5.E-09	8.E-09	7.E-10	9.E-09	1.E-09	7.E-09	3.E-08	1.E-08	4.E-09	9.E-08
Root Veg. Intake/Waste Concentration	3.E-08	9.E-09	6.E-09	6.E-09	2.E-07	NA	NA	1.E-08	1.E-07	6.E-08	NA	NA	8.E-09	5.E-08	2.E-07	1.E-07	NA	8.E-07
Root Veg. Intake/Distance to Receptor	NA	4.E-09	7.E-10	2.E-09	1.E-08	9.E-10	NA	9.E-11	5.E-09	7.E-09	6.E-10	7.E-09	1.E-09	6.E-09	2.E-08	1.E-08	3.E-09	8.E-08
Fruit Intake/Waste Concentration	4.E-08	9.E-09	8.E-09	7.E-09	2.E-07	NA	NA	1.E-08	2.E-07	9.E-08	NA	NA	1.E-08	6.E-08	3.E-07	1.E-07	NA	1.E-06
Fruit Intake/Distance to Receptor	NA	5.E-09	1.E-09	3.E-09	1.E-08	1.E-09	NA	1.E-10	8.E-09	1.E-08	1.E-09	1.E-08	2.E-09	8.E-09	4.E-08	1.E-08	5.E-09	1.E-07
Waste Concentration/Distance to Receptor	3.E-08	8.E-09	7.E-09	6.E-09	2.E-07	NA	NA	1.E-08	1.E-07	7.E-08	NA	NA	9.E-09	5.E-08	2.E-07	1.E-07	NA	8.E-07

**Table H.2-3b. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Gardener**

6/25/99

High End Parameter(s)	Manganese	Molybdenum	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Cobalt	Vanadium	Zinc
Central Tendency	0.0002	<0.0001	0.0001	1.E-07	<0.0001	<0.0001	0.001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>										
Exposure Duration	0.0002	<0.0001	0.0001	3.E-07	<0.0001	<0.0001	0.001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake	0.0005	<0.0001	0.0003	2.E-07	0.0001	<0.0001	0.002	<0.0001	<0.0001	0.0001
Root Veg. Intake	0.0003	<0.0001	0.0002	1.E-07	<0.0001	<0.0001	0.002	<0.0001	<0.0001	<0.0001
Fruit Intake	0.0004	<0.0001	0.0002	2.E-07	0.0001	<0.0001	0.002	<0.0001	<0.0001	0.0001
Waste Concentration	0.0005	<0.0001	0.0003	3.E-07	<0.0001	<0.0001	0.004	<0.0001	<0.0001	0.0001
Distance to Receptor	0.0002	<0.0001	0.0001	1.E-07	<0.0001	<0.0001	0.001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>										
Exposure Duration/Exposed Veg. Intake	0.0005	<0.0001	0.0003	6.E-07	0.0001	<0.0001	0.002	<0.0001	<0.0001	0.0001
Exposure Duration/Root Veg. Intake	0.0003	<0.0001	0.0002	4.E-07	<0.0001	<0.0001	0.002	<0.0001	<0.0001	<0.0001
Exposure Duration/Fruit Intake	0.0004	<0.0001	0.0002	6.E-07	<0.0001	<0.0001	0.002	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	0.0005	<0.0001	0.0003	9.E-07	<0.0001	<0.0001	0.004	<0.0001	<0.0001	0.0001
Exposure Duration/Distance to Receptor	0.0002	<0.0001	0.0001	3.E-07	<0.0001	<0.0001	0.001	<0.0001	<0.0001	<0.0001
Exposed Veg. Intake/ Root Veg. Intake	0.0006	<0.0001	0.0003	2.E-07	0.0001	<0.0001	0.002	<0.0001	<0.0001	0.0001
Exposed Veg. Intake/ Fruit Intake	0.0007	<0.0001	0.0004	3.E-07	0.0002	<0.0001	0.002	<0.0001	<0.0001	0.0002
Exposed Veg. Intake/Waste Concentration	0.001	<0.0001	0.0005	5.E-07	0.0001	<0.0001	0.006	<0.0001	0.0001	0.0003
Exposed Veg. Intake/Distance to Receptor	0.0005	<0.0001	0.0003	2.E-07	0.0001	<0.0001	0.002	<0.0001	<0.0001	0.0001
Root Veg. Intake/Fruit Intake	0.0005	<0.0001	0.0002	2.E-07	0.0001	<0.0001	0.002	<0.0001	<0.0001	0.0001
Root Veg. Intake/Waste Concentration	0.0005	<0.0001	0.0003	3.E-07	<0.0001	<0.0001	0.005	<0.0001	0.0001	0.0001
Root Veg. Intake/Distance to Receptor	0.0003	<0.0001	0.0002	1.E-07	<0.0001	<0.0001	0.002	<0.0001	<0.0001	<0.0001
Fruit Intake/Waste Concentration	0.001	<0.0001	0.0004	5.E-07	0.0002	<0.0001	0.006	<0.0001	0.0001	0.0003
Fruit Intake/Distance to Receptor	0.0004	<0.0001	0.0002	2.E-07	0.0001	<0.0001	0.002	<0.0001	<0.0001	0.0001
Waste Concentration/Distance to Receptor	0.0005	<0.0001	0.0002	3.E-07	<0.0001	<0.0001	0.004	<0.0001	<0.0001	0.0001

**Table H.2-3c. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachloro benzene	Tetra chloro ethylene
<b>Central Tendency</b>	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	5.E-17	2.E-16	2.E-14	<0.0001	8.E-12	2.E-08	3.E-10	8.E-16
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	8.E-15	1.E-13	1.E-15	<0.0001	<0.0001	3.E-16	1.E-15	1.E-13	<0.0001	4.E-11	8.E-08	1.E-09	4.E-15
Beef Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	5.E-17	2.E-16	2.E-14	<0.0001	8.E-12	3.E-08	5.E-10	8.E-16
Dairy Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	6.E-17	2.E-16	2.E-14	<0.0001	8.E-12	4.E-08	6.E-10	9.E-16
Exposed Veg. Intake	<0.0001	<0.0001	3.E-15	5.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	2.E-11	2.E-08	3.E-10	2.E-15
Root Veg. Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	5.E-17	2.E-16	2.E-14	<0.0001	8.E-12	2.E-08	3.E-10	8.E-16
Fruit Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	2.E-08	3.E-10	3.E-15
Waste Concentration	<0.0001	<0.0001	6.E-15	5.E-14	6.E-16	<0.0001	<0.0001	6.E-17	3.E-16	9.E-14	<0.0001	1.E-11	4.E-08	3.E-10	2.E-15
Distance to Receptor	<0.0001	<0.0001	4.E-15	8.E-14	7.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	1.E-11	4.E-08	5.E-10	2.E-15
<b>Double High End Parameters</b>															
Exposure Duration/Beef Intake	<0.0001	<0.0001	8.E-15	1.E-13	1.E-15	<0.0001	<0.0001	3.E-16	1.E-15	1.E-13	<0.0001	4.E-11	1.E-07	2.E-09	4.E-15
Exposure Duration/Dairy Intake	<0.0001	<0.0001	8.E-15	1.E-13	1.E-15	<0.0001	<0.0001	3.E-16	1.E-15	1.E-13	<0.0001	4.E-11	2.E-07	3.E-09	4.E-15
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	1.E-14	2.E-13	2.E-15	<0.0001	<0.0001	5.E-16	2.E-15	2.E-13	<0.0001	1.E-10	8.E-08	1.E-09	8.E-15
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	8.E-15	1.E-13	1.E-15	<0.0001	<0.0001	3.E-16	1.E-15	1.E-13	<0.0001	4.E-11	8.E-08	1.E-09	4.E-15
Exposure Duration/Fruit Intake	<0.0001	<0.0001	2.E-14	4.E-13	4.E-15	<0.0001	<0.0001	8.E-16	3.E-15	4.E-13	<0.0001	1.E-10	8.E-08	1.E-09	1.E-14
Exposure Duration/Waste Concentration	<0.0001	<0.0001	3.E-14	2.E-13	3.E-15	<0.0001	<0.0001	3.E-16	1.E-15	5.E-13	<0.0001	7.E-11	2.E-07	1.E-09	8.E-15
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	2.E-14	4.E-13	4.E-15	<0.0001	<0.0001	7.E-16	3.E-15	3.E-13	<0.0001	6.E-11	2.E-07	3.E-09	1.E-14
Beef Intake/ Dairy Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	6.E-17	2.E-16	2.E-14	<0.0001	8.E-12	5.E-08	8.E-10	9.E-16
Beef Intake/ Exposed Veg. Intake	<0.0001	<0.0001	3.E-15	5.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	2.E-11	3.E-08	5.E-10	2.E-15
Beef Intake/Root Vegetable Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	5.E-17	2.E-16	2.E-14	<0.0001	8.E-12	3.E-08	5.E-10	9.E-16
Beef Intake/Fruit Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	3.E-08	5.E-10	3.E-15
Beef Intake/Waste Concentration	<0.0001	<0.0001	6.E-15	5.E-14	6.E-16	<0.0001	<0.0001	6.E-17	3.E-16	9.E-14	<0.0001	1.E-11	8.E-08	5.E-10	2.E-15
Beef Intake/Distance to Receptor	<0.0001	<0.0001	4.E-15	8.E-14	7.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	1.E-11	7.E-08	1.E-09	2.E-15
Dairy Intake/Exposed Vegetable Intake	<0.0001	<0.0001	3.E-15	5.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	2.E-11	4.E-08	6.E-10	2.E-15
Dairy Intake/Root Vegetable Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	6.E-17	2.E-16	2.E-14	<0.0001	8.E-12	4.E-08	6.E-10	9.E-16
Dairy Intake/Fruit Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	4.E-08	6.E-10	3.E-15
Dairy Intake/Waste Concentration	<0.0001	<0.0001	6.E-15	5.E-14	6.E-16	<0.0001	<0.0001	6.E-17	3.E-16	9.E-14	<0.0001	1.E-11	9.E-08	6.E-10	2.E-15
Dairy Intake/Distance to Receptor	<0.0001	<0.0001	4.E-15	8.E-14	7.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	1.E-11	9.E-08	1.E-09	2.E-15
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	3.E-15	5.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	2.E-11	2.E-08	3.E-10	2.E-15
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	6.E-15	1.E-13	1.E-15	<0.0001	<0.0001	2.E-16	8.E-16	1.E-13	<0.0001	3.E-11	2.E-08	3.E-10	3.E-15
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	1.E-14	9.E-14	1.E-15	<0.0001	<0.0001	1.E-16	5.E-16	2.E-13	<0.0001	3.E-11	4.E-08	3.E-10	3.E-15
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	9.E-15	1.E-13	1.E-15	<0.0001	<0.0001	3.E-16	1.E-15	1.E-13	<0.0001	3.E-11	4.E-08	6.E-10	5.E-15

**Table H.2-3c. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachloro benzene	Tetra chloro ethylene
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	2.E-08	3.E-10	3.E-15
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	6.E-15	5.E-14	6.E-16	<0.0001	<0.0001	6.E-17	3.E-16	9.E-14	<0.0001	1.E-11	4.E-08	3.E-10	2.E-15
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	4.E-15	8.E-14	7.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	1.E-11	4.E-08	5.E-10	2.E-15
Fruit Intake/Waste Concentration	<0.0001	<0.0001	2.E-14	1.E-13	2.E-15	<0.0001	<0.0001	2.E-16	9.E-16	3.E-13	<0.0001	4.E-11	4.E-08	3.E-10	5.E-15
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	1.E-14	2.E-13	2.E-15	<0.0001	<0.0001	5.E-16	2.E-15	2.E-13	<0.0001	3.E-11	4.E-08	6.E-10	7.E-15
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	2.E-14	1.E-13	2.E-15	<0.0001	<0.0001	2.E-16	8.E-16	3.E-13	<0.0001	2.E-11	1.E-07	5.E-10	5.E-15

**Table H.2-3c. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6, 7,8,-	OCDF, 1,2,3,4,6, 7,8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1, 2,3,4,7,8,9	PeCDF, 2,3,4,7,8-	PeCDF, 1,2,3,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2 ,3,4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	NA	5.E-08	6.E-08	2.E-08	1.E-07	7.E-08	2.E-09	2.E-07	<b>1.E-06</b>	2.E-08	4.E-07	8.E-08	4.E-07	4.E-07	7.E-07	2.E-07	<b>4.E-06</b>
<b>Single High End Parameter</b>																	
Exposure Duration	NA	3.E-07	3.E-07	1.E-07	5.E-07	3.E-07	1.E-08	8.E-07	<b>4.E-06</b>	8.E-08	<b>2.E-06</b>	3.E-07	<b>2.E-06</b>	<b>2.E-06</b>	<b>3.E-06</b>	9.E-07	<b>2.E-05</b>
Beef intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	9.E-07	2.E-07	8.E-07	9.E-07	<b>2.E-06</b>	4.E-07	<b>8.E-06</b>
Dairy Intake	NA	9.E-08	1.E-07	4.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	8.E-07	1.E-07	6.E-07	8.E-07	<b>1.E-06</b>	4.E-07	<b>7.E-06</b>
Exposed Veg. Intake	NA	6.E-08	6.E-08	2.E-08	1.E-07	7.E-08	3.E-09	2.E-07	<b>1.E-06</b>	2.E-08	4.E-07	8.E-08	4.E-07	5.E-07	8.E-07	2.E-07	<b>4.E-06</b>
Root Veg. Intake	NA	6.E-08	6.E-08	2.E-08	1.E-07	7.E-08	2.E-09	2.E-07	<b>1.E-06</b>	2.E-08	4.E-07	8.E-08	4.E-07	4.E-07	8.E-07	2.E-07	<b>4.E-06</b>
Fruit Intake	NA	6.E-08	6.E-08	3.E-08	1.E-07	7.E-08	3.E-09	2.E-07	<b>1.E-06</b>	2.E-08	4.E-07	8.E-08	4.E-07	5.E-07	8.E-07	2.E-07	<b>4.E-06</b>
Waste Concentration	<b>3.E-06</b>	2.E-07	7.E-07	8.E-08	<b>2.E-06</b>	NA	3.E-07	<b>6.E-06</b>	<b>1.E-05</b>	NA	NA	8.E-07	<b>3.E-06</b>	<b>4.E-06</b>	<b>1.E-05</b>	NA	<b>4.E-05</b>
Distance to Receptor	NA	1.E-07	1.E-07	4.E-08	2.E-07	1.E-07	4.E-09	4.E-07	<b>2.E-06</b>	4.E-08	7.E-07	2.E-07	6.E-07	9.E-07	<b>1.E-06</b>	4.E-07	<b>7.E-06</b>
<b>Double High End Parameters</b>																	
Exposure Duration/Beef Intake	NA	6.E-07	6.E-07	2.E-07	1.E-06	6.E-07	2.E-08	<b>2.E-06</b>	<b>1.E-05</b>	2.E-07	<b>4.E-06</b>	8.E-07	<b>4.E-06</b>	<b>4.E-06</b>	<b>8.E-06</b>	<b>2.E-06</b>	<b>4.E-05</b>
Exposure Duration/Dairy Intake	NA	4.E-07	5.E-07	2.E-07	8.E-07	6.E-07	2.E-08	<b>2.E-06</b>	<b>8.E-06</b>	2.E-07	<b>3.E-06</b>	6.E-07	<b>3.E-06</b>	<b>3.E-06</b>	<b>6.E-06</b>	<b>2.E-06</b>	<b>3.E-05</b>
Exposure Duration/Exposed Veg. Intake	NA	3.E-07	3.E-07	1.E-07	5.E-07	3.E-07	1.E-08	8.E-07	<b>4.E-06</b>	8.E-08	<b>2.E-06</b>	3.E-07	<b>2.E-06</b>	<b>2.E-06</b>	<b>3.E-06</b>	9.E-07	<b>2.E-05</b>
Exposure Duration/Root Veg. Intake	NA	3.E-07	3.E-07	1.E-07	5.E-07	3.E-07	1.E-08	8.E-07	<b>4.E-06</b>	8.E-08	<b>2.E-06</b>	3.E-07	<b>2.E-06</b>	<b>2.E-06</b>	<b>3.E-06</b>	9.E-07	<b>2.E-05</b>
Exposure Duration/Fruit Intake	NA	3.E-07	3.E-07	1.E-07	5.E-07	3.E-07	1.E-08	9.E-07	<b>4.E-06</b>	9.E-08	<b>2.E-06</b>	3.E-07	<b>2.E-06</b>	<b>2.E-06</b>	<b>3.E-06</b>	<b>1.E-06</b>	<b>2.E-05</b>
Exposure Duration/Waste Concentration	<b>2.E-05</b>	7.E-07	<b>3.E-06</b>	4.E-07	<b>1.E-05</b>	NA	<b>1.E-06</b>	<b>3.E-05</b>	<b>5.E-05</b>	NA	NA	<b>4.E-06</b>	<b>1.E-05</b>	<b>2.E-05</b>	<b>4.E-05</b>	NA	<b>2.E-04</b>
Exposure Duration/Distance to Receptor	NA	5.E-07	6.E-07	2.E-07	8.E-07	6.E-07	2.E-08	<b>2.E-06</b>	<b>9.E-06</b>	2.E-07	<b>3.E-06</b>	7.E-07	<b>3.E-06</b>	<b>4.E-06</b>	<b>6.E-06</b>	<b>2.E-06</b>	<b>3.E-05</b>
Beef Intake/ Dairy Intake	NA	2.E-07	2.E-07	7.E-08	3.E-07	2.E-07	7.E-09	6.E-07	<b>3.E-06</b>	6.E-08	<b>1.E-06</b>	2.E-07	<b>1.E-06</b>	<b>1.E-06</b>	<b>2.E-06</b>	6.E-07	<b>1.E-05</b>
Beef Intake/ Exposed Veg. Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	9.E-07	2.E-07	8.E-07	<b>1.E-06</b>	<b>2.E-06</b>	5.E-07	<b>8.E-06</b>
Beef Intake/Root Vegetable Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	9.E-07	2.E-07	8.E-07	9.E-07	<b>2.E-06</b>	4.E-07	<b>8.E-06</b>
Beef Intake/Fruit Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	9.E-07	2.E-07	8.E-07	<b>1.E-06</b>	<b>2.E-06</b>	5.E-07	<b>8.E-06</b>
Beef Intake/Waste Concentration	<b>8.E-06</b>	<b>4.E-07</b>	<b>1.E-06</b>	2.E-07	<b>4.E-06</b>	NA	6.E-07	<b>1.E-05</b>	<b>3.E-05</b>	NA	NA	<b>2.E-06</b>	<b>7.E-06</b>	<b>9.E-06</b>	<b>2.E-05</b>	NA	<b>9.E-05</b>
Beef Intake/Distance to Receptor	NA	2.E-07	3.E-07	8.E-08	3.E-07	3.E-07	8.E-09	8.E-07	<b>5.E-06</b>	8.E-08	<b>2.E-06</b>	4.E-07	<b>1.E-06</b>	<b>2.E-06</b>	<b>3.E-06</b>	8.E-07	<b>2.E-05</b>
Dairy Intake/Exposed Vegetable Intake	NA	9.E-08	1.E-07	4.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	8.E-07	1.E-07	6.E-07	8.E-07	<b>1.E-06</b>	4.E-07	<b>7.E-06</b>
Dairy Intake/Root Vegetable Intake	NA	9.E-08	1.E-07	4.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	8.E-07	1.E-07	6.E-07	8.E-07	<b>1.E-06</b>	4.E-07	<b>7.E-06</b>
Dairy Intake/Fruit Intake	NA	9.E-08	1.E-07	4.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	8.E-07	1.E-07	6.E-07	8.E-07	<b>1.E-06</b>	4.E-07	<b>7.E-06</b>
Dairy Intake/Waste Concentration	<b>6.E-06</b>	3.E-07	<b>1.E-06</b>	1.E-07	<b>3.E-06</b>	NA	6.E-07	<b>1.E-05</b>	<b>2.E-05</b>	NA	NA	<b>2.E-06</b>	<b>6.E-06</b>	<b>8.E-06</b>	<b>2.E-05</b>	NA	<b>8.E-05</b>
Dairy Intake/Distance to Receptor	NA	2.E-07	3.E-07	7.E-08	3.E-07	3.E-07	9.E-09	9.E-07	<b>4.E-06</b>	8.E-08	<b>1.E-06</b>	3.E-07	<b>1.E-06</b>	<b>2.E-06</b>	<b>3.E-06</b>	7.E-07	<b>1.E-05</b>
Exposed Veg. Intake/ Root Veg. Intake	NA	6.E-08	6.E-08	3.E-08	1.E-07	7.E-08	3.E-09	2.E-07	<b>1.E-06</b>	2.E-08	4.E-07	8.E-08	4.E-07	5.E-07	8.E-07	2.E-07	<b>4.E-06</b>
Exposed Veg. Intake/ Fruit Intake	NA	6.E-08	6.E-08	3.E-08	1.E-07	7.E-08	3.E-09	2.E-07	<b>1.E-06</b>	2.E-08	4.E-07	8.E-08	4.E-07	5.E-07	8.E-07	2.E-07	<b>4.E-06</b>
Exposed Veg. Intake/Waste Concentration	<b>4.E-06</b>	2.E-07	7.E-07	8.E-08	<b>2.E-06</b>	NA	3.E-07	<b>6.E-06</b>	<b>1.E-05</b>	NA	NA	8.E-07	<b>3.E-06</b>	<b>4.E-06</b>	<b>1.E-05</b>	NA	<b>4.E-05</b>
Exposed Veg. Intake/Distance to Receptor	NA	1.E-07	1.E-07	4.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	7.E-07	2.E-07	6.E-07	<b>1.E-06</b>	<b>1.E-06</b>	4.E-07	<b>7.E-06</b>



**Table H.2-3c. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7, 8,9-	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6, 7,8,-	OCDF, 1,2,3,4,6, 7,8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF,1, 2,3,4,7,8,9	PeCDF, 2,3,4,7,8-	PeCDF, 1,2,3,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF,1,2 ,3,4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
Root Veg. Intake/Fruit Intake	NA	6.E-08	6.E-08	3.E-08	1.E-07	7.E-08	3.E-09	2.E-07	<b>1.E-06</b>	2.E-08	4.E-07	8.E-08	4.E-07	5.E-07	8.E-07	2.E-07	<b>4.E-06</b>
Root Veg. Intake/Waste Concentration	<b>4.E-06</b>	2.E-07	7.E-07	8.E-08	<b>2.E-06</b>	NA	3.E-07	<b>6.E-06</b>	<b>1.E-05</b>	NA	NA	8.E-07	<b>3.E-06</b>	<b>4.E-06</b>	<b>1.E-05</b>	NA	<b>4.E-05</b>
Root Veg. Intake/Distance to Receptor	NA	1.E-07	1.E-07	4.E-08	2.E-07	1.E-07	4.E-09	4.E-07	<b>2.E-06</b>	4.E-08	7.E-07	2.E-07	6.E-07	9.E-07	<b>1.E-06</b>	4.E-07	<b>7.E-06</b>
Fruit Intake/Waste Concentration	<b>4.E-06</b>	2.E-07	7.E-07	8.E-08	<b>2.E-06</b>	NA	3.E-07	<b>6.E-06</b>	<b>1.E-05</b>	NA	NA	8.E-07	<b>3.E-06</b>	<b>5.E-06</b>	<b>1.E-05</b>	NA	<b>4.E-05</b>
Fruit Intake/Distance to Receptor	NA	1.E-07	1.E-07	4.E-08	2.E-07	1.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	7.E-07	2.E-07	6.E-07	<b>1.E-06</b>	<b>1.E-06</b>	4.E-07	<b>8.E-06</b>
Waste Concentration/Distance to Receptor	<b>6.E-06</b>	3.E-07	<b>1.E-06</b>	1.E-07	<b>3.E-06</b>	NA	6.E-07	<b>1.E-05</b>	<b>3.E-05</b>	NA	NA	<b>2.E-06</b>	<b>6.E-06</b>	<b>9.E-06</b>	<b>2.E-05</b>	NA	<b>9.E-05</b>

**Table H.2-3c. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Manganese	Molybdenum	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Cobalt	Vanadium	Zinc
<b>Central Tendency</b>	0.0007	<0.0001	0.001	5.E-07	0.0001	<0.0001	0.01	<0.0001	0.0004	0.0001
<b>Single High End Parameter</b>										
Exposure Duration	0.0007	<0.0001	0.001	<b>2.E-06</b>	0.0001	<0.0001	0.01	<0.0001	0.0004	0.0001
Beef Intake	0.0008	0.0001	0.003	7.E-07	0.0002	<0.0001	0.03	<0.0001	0.0005	0.0001
Dairy Intake	0.0009	0.0001	0.003	5.E-07	0.0002	<0.0001	0.02	<0.0001	0.0007	0.0001
Exposed Veg. Intake	0.002	<0.0001	0.002	8.E-07	0.0003	<0.0001	0.02	<0.0001	0.0004	0.0003
Root Veg. Intake	0.001	<0.0001	0.002	7.E-07	0.0002	<0.0001	0.02	<0.0001	0.0004	0.0002
Fruit Intake	0.001	<0.0001	0.002	8.E-07	0.0003	<0.0001	0.02	<0.0001	0.0004	0.0003
Waste Concentration	0.002	0.0001	0.003	<b>1.E-06</b>	0.0003	<0.0001	0.03	<0.0001	0.0007	0.0003
Distance to Receptor	0.0009	<0.0001	0.002	5.E-07	0.0002	<0.0001	0.01	<0.0001	0.0004	0.0001
<b>Double High End Parameters</b>										
Exposure Duration/Beef Intake	0.0008	0.0001	0.003	<b>4.E-06</b>	0.0001	<0.0001	0.03	<0.0001	0.0005	0.0001
Exposure Duration/Dairy Intake	0.0009	0.0001	0.003	<b>2.E-06</b>	0.0002	<0.0001	0.02	<0.0001	0.0007	0.0001
Exposure Duration/Exposed Veg. Intake	0.002	<0.0001	0.002	<b>4.E-06</b>	0.0003	<0.0001	0.02	<0.0001	0.0004	0.0003
Exposure Duration/Root Veg. Intake	0.001	<0.0001	0.002	<b>3.E-06</b>	0.0002	<0.0001	0.02	<0.0001	0.0004	0.0002
Exposure Duration/Fruit Intake	0.001	<0.0001	0.002	<b>4.E-06</b>	0.0003	<0.0001	0.02	<0.0001	0.0004	0.0003
Exposure Duration/Waste Concentration	0.002	0.0001	0.003	<b>6.E-06</b>	0.0003	<0.0001	0.03	<0.0001	0.0007	0.0003
Exposure Duration/Distance to Receptor	0.0007	<0.0001	0.002	<b>3.E-06</b>	0.0001	<0.0001	0.01	<0.0001	0.0004	0.0001
Beef Intake/ Dairy Intake	0.001	0.0002	0.004	8.E-07	0.0002	<0.0001	0.03	<0.0001	0.0008	0.0001
Beef Intake/ Exposed Veg. Intake	0.002	0.0001	0.003	<b>1.E-06</b>	0.0003	<0.0001	0.03	<0.0001	0.0006	0.0003
Beef Intake/Root Vegetable Intake	0.001	0.0001	0.003	9.E-07	0.0002	<0.0001	0.03	<0.0001	0.0006	0.0002
Beef Intake/Fruit Intake	0.001	0.0001	0.003	<b>1.E-06</b>	0.0003	<0.0001	0.03	<0.0001	0.0006	0.0003
Beef Intake/Waste Concentration	0.002	0.0002	0.006	<b>2.E-06</b>	0.0003	<0.0001	0.06	<0.0001	0.001	0.0003
Beef Intake/Distance to Receptor	0.001	0.0001	0.003	8.E-07	0.0002	<0.0001	0.03	<0.0001	0.0005	0.0001
Dairy Intake/Exposed Vegetable Intake	0.002	0.0001	0.003	9.E-07	0.0003	<0.0001	0.02	<0.0001	0.0007	0.0003
Dairy Intake/Root Vegetable Intake	0.001	0.0001	0.003	7.E-07	0.0002	<0.0001	0.02	<0.0001	0.0007	0.0002
Dairy Intake/Fruit Intake	0.002	0.0001	0.003	9.E-07	0.0003	<0.0001	0.02	<0.0001	0.0007	0.0003
Dairy Intake/Waste Concentration	0.002	0.0002	0.005	<b>1.E-06</b>	0.0003	<0.0001	0.06	<0.0001	0.001	0.0003
Dairy Intake/Distance to Receptor	0.001	0.0001	0.003	6.E-07	0.0002	<0.0001	0.03	<0.0001	0.0008	0.0001
Exposed Veg. Intake/ Root Veg. Intake	0.002	<0.0001	0.002	<b>1.E-06</b>	0.0003	<0.0001	0.02	<0.0001	0.0005	0.0003
Exposed Veg. Intake/ Fruit Intake	0.002	<0.0001	0.002	<b>1.E-06</b>	0.0004	<0.0001	0.02	<0.0001	0.0005	0.0004
Exposed Veg. Intake/Waste Concentration	0.003	0.0001	0.004	<b>2.E-06</b>	0.0006	<0.0001	0.04	<0.0001	0.0008	0.0007
Exposed Veg. Intake/Distance to Receptor	0.002	<0.0001	0.002	9.E-07	0.0003	<0.0001	0.02	<0.0001	0.0005	0.0003

**Table H.2-3c. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Manganese	Molybdenum	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Cobalt	Vanadium	Zinc
Root Veg. Intake/Fruit Intake	0.002	<0.0001	0.002	<b>1.E-06</b>	0.0003	<0.0001	0.02	<0.0001	0.0005	0.0003
Root Veg. Intake/Waste Concentration	0.002	0.0001	0.003	<b>2.E-06</b>	0.0003	<0.0001	0.04	<0.0001	0.0009	0.0004
Root Veg. Intake/Distance to Receptor	0.001	<0.0001	0.002	7.E-07	0.0002	<0.0001	0.02	<0.0001	0.0005	0.0002
Fruit Intake/Waste Concentration	0.003	0.0001	0.004	<b>2.E-06</b>	0.0006	<0.0001	0.04	<0.0001	0.0009	0.0008
Fruit Intake/Distance to Receptor	0.002	<0.0001	0.002	9.E-07	0.0003	<0.0001	0.02	<0.0001	0.0005	0.0003
Waste Concentration/Distance to Receptor	0.002	0.0001	0.003	<b>1.E-06</b>	0.0003	<0.0001	0.05	<0.0001	0.0009	0.0004

**Table H.2-3d. Risk and Sensitivity Analysis Results for Ingestion Exposure  
(EDC/VCM LTU, Non-Groundwater Deterministic), Fisher**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloro ethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachloro-benzene	Tetrachloro ethylene
<b>Central Tendency</b>	<0.0001	<0.0001	1.E-13	6.E-12	6.E-14	<0.0001	<0.0001	1.E-14	5.E-14	1.E-11	<0.0001	2.E-09	8.E-08	1.E-07	3E-13
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	5.E-13	2.E-11	2.E-13	<0.0001	<0.0001	5.E-14	2.E-13	4.E-11	<0.0001	5.E-09	3.E-07	5.E-07	1E-12
Fish Intake	<0.0001	<0.0001	4.E-13	2.E-11	2.E-13	<0.0001	<0.0001	5.E-14	1.E-13	4.E-11	<0.0001	5.E-09	3.E-07	5.E-07	9E-13
Waste Concentration	<0.0001	<0.0001	5.E-13	1.E-11	1.E-13	<0.0001	<0.0001	2.E-14	7.E-14	4.E-11	<0.0001	3.E-09	2.E-07	1.E-07	6E-13
Distance to Receptor	<0.0001	<0.0001	1.E-13	6.E-12	7.E-14	<0.0001	<0.0001	2.E-14	5.E-14	1.E-11	<0.0001	2.E-09	1.E-07	2.E-07	3E-13
<b>Double High End Parameters</b>															
Exposure Duration/Fish Intake	<0.0001	<0.0001	1.E-12	6.E-11	7.E-13	<0.0001	<0.0001	2.E-13	5.E-13	1.E-10	<0.0001	2.E-08	8.E-07	<b>2.E-06</b>	3E-12
Exposure Duration/Waste Concentration	<0.0001	<0.0001	2.E-12	3.E-11	5.E-13	<0.0001	<0.0001	5.E-14	2.E-13	1.E-10	<0.0001	9.E-09	7.E-07	5.E-07	2E-12
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	5.E-13	2.E-11	2.E-13	<0.0001	<0.0001	5.E-14	2.E-13	4.E-11	<0.0001	5.E-09	3.E-07	6.E-07	1E-12
Fish Intake/Waste Concentration	<0.0001	<0.0001	2.E-12	3.E-11	4.E-13	<0.0001	<0.0001	5.E-14	2.E-13	1.E-10	<0.0001	8.E-09	7.E-07	5.E-07	2E-12
Fish Intake/Distance to Receptor	<0.0001	<0.0001	4.E-13	2.E-11	2.E-13	<0.0001	<0.0001	5.E-14	1.E-13	4.E-11	<0.0001	5.E-09	3.E-07	6.E-07	1E-12
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	6.E-13	1.E-11	1.E-13	<0.0001	<0.0001	2.E-14	7.E-14	5.E-11	<0.0001	3.E-09	2.E-07	2.E-07	6E-13

**Table H.2-3d. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Fisher**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5 ,7,8,9-	HxCDD 1,2,3,7,8, 9-	HpCDD 1,2,3,4,6,7, ,8	OCDF 1,2,3,4,6,7, 8,9-	HxCDD 1,2,3,4,7,8	TCDF 2,3,7,8-	HpCDF1,2 ,3,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2, 3,4,6,7,8-	HxCDF 1,2,3,4,7,8	HxCDF 1,2,3,7,8,9-	TEQ
Central Tendency	NA	8.E-11	7.E-09	4.E-09	4.E-10	1.E-08	2.E-09	6.E-09	1.E-07	1.E-08	1.E-07	1.E-08	9.E-08	3.E-08	1.E-07	5.E-08	6.E-07
Single High End Parameter																	
Exposure Duration	NA	3.E-10	2.E-08	1.E-08	1.E-09	4.E-08	8.E-09	2.E-08	5.E-07	4.E-08	4.E-07	3.E-08	3.E-07	1.E-07	4.E-07	2.E-07	<b>2.E-06</b>
Fish Intake	NA	3.E-10	2.E-08	1.E-08	1.E-09	4.E-08	8.E-09	2.E-08	5.E-07	3.E-08	3.E-07	3.E-08	3.E-07	1.E-07	4.E-07	2.E-07	<b>2.E-06</b>
Waste Concentration	8.E-07	2.E-10	8.E-08	1.E-08	8.E-09	NA	3.E-07	2.E-07	<b>2.E-06</b>	NA	NA	1.E-07	8.E-07	3.E-07	<b>2.E-06</b>	NA	<b>6.E-06</b>
Distance to Receptor	NA	7.E-11	6.E-09	4.E-09	4.E-10	1.E-08	2.E-09	6.E-09	1.E-07	1.E-08	1.E-07	9.E-09	8.E-08	3.E-08	1.E-07	4.E-08	5.E-07
Double High End Parameters																	
Exposure Duration/Fish Intake	NA	9.E-10	7.E-08	4.E-08	4.E-09	1.E-07	3.E-08	7.E-08	<b>2.E-06</b>	1.E-07	<b>1.E-06</b>	1.E-07	9.E-07	3.E-07	<b>1.E-06</b>	5.E-07	<b>6.E-06</b>
Exposure Duration/Waste Concentration	<b>3.E-06</b>	8.E-10	3.E-07	5.E-08	3.E-08	NA	<b>1.E-06</b>	7.E-07	<b>6.E-06</b>	NA	NA	3.E-07	<b>3.E-06</b>	<b>1.E-06</b>	<b>6.E-06</b>	NA	<b>2.E-05</b>
Exposure Duration/Distance to Receptor	NA	2.E-10	2.E-08	1.E-08	1.E-09	3.E-08	7.E-09	2.E-08	4.E-07	3.E-08	3.E-07	3.E-08	3.E-07	1.E-07	4.E-07	1.E-07	<b>2.E-06</b>
Fish Intake/Waste Concentration	<b>3.E-06</b>	7.E-10	2.E-07	4.E-08	2.E-08	NA	<b>1.E-06</b>	7.E-07	<b>5.E-06</b>	NA	NA	3.E-07	<b>3.E-06</b>	<b>1.E-06</b>	<b>5.E-06</b>	NA	<b>2.E-05</b>
Fish Intake/Distance to Receptor	NA	2.E-10	2.E-08	1.E-08	1.E-09	3.E-08	7.E-09	2.E-08	4.E-07	3.E-08	3.E-07	3.E-08	3.E-07	9.E-08	4.E-07	1.E-07	<b>2.E-06</b>
Waste Concentration/Distance to Receptor	7.E-07	2.E-10	7.E-08	1.E-08	7.E-09	NA	3.E-07	2.E-07	<b>2.E-06</b>	NA	NA	9.E-08	7.E-07	3.E-07	<b>2.E-06</b>	NA	<b>6.E-06</b>

**Table H.2-3d. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Fisher**

6/25/99

High End Parameter(s)	Manganese	Molybdenum	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Cobalt	Vanadium	Zinc
Central Tendency	<0.0001	<0.0001	<0.0001	3.E-08	<0.0001	0.0004	0.0001	<0.0001	<0.0001	<0.0001
<b>Single High End Parameter</b>										
Exposure Duration	<0.0001	<0.0001	<0.0001	1.E-07	<0.0001	0.0004	0.0001	<0.0001	<0.0001	<0.0001
Fish Intake	<0.0001	<0.0001	<0.0001	1.E-07	<0.0001	0.001	0.0004	<0.0001	<0.0001	<0.0001
Waste Concentration	<0.0001	<0.0001	<0.0001	8.E-08	<0.0001	0.0007	0.0003	<0.0001	<0.0001	<0.0001
Distance to Receptor	<0.0001	<0.0001	<0.0001	3.E-08	<0.0001	0.0004	0.0001	<0.0001	<0.0001	<0.0001
<b>Double High End Parameters</b>										
Exposure Duration/Fish Intake	<0.0001	<0.0001	<0.0001	3.E-07	<0.0001	0.001	0.0004	<0.0001	<0.0001	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	<0.0001	3.E-07	<0.0001	0.0007	0.0003	<0.0001	<0.0001	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	<0.0001	9.E-08	<0.0001	0.0004	0.0001	<0.0001	<0.0001	<0.0001
Fish Intake/Waste Concentration	<0.0001	<0.0001	<0.0001	3.E-07	<0.0001	0.002	0.001	<0.0001	<0.0001	0.0001
Fish Intake/Distance to Receptor	<0.0001	<0.0001	<0.0001	9.E-08	<0.0001	0.001	0.0003	<0.0001	<0.0001	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	<0.0001	8.E-08	<0.0001	0.0007	0.0003	<0.0001	<0.0001	<0.0001

**Table H.2-3e. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachloro benzene	Tetrachloro ethylene
Central Tendency	<0.0001	<0.0001	8.E-19	7.E-19	5.E-20	<0.0001	<0.0001	7.E-20	1.E-20	2.E-17	<0.0001	2.E-14	6.E-13	2.E-11	6.E-19
Single High End Parameter															
Exposure Duration	<0.0001	<0.0001	2.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-19	2.E-20	3.E-17	<0.0001	5.E-14	1.E-12	3.E-11	1.E-18
Waste Concentration	<0.0001	<0.0001	3.E-18	1.E-18	1.E-19	<0.0001	<0.0001	7.E-20	2.E-20	6.E-17	<0.0001	4.E-14	2.E-12	2.E-11	1.E-18
Child Soil Intake	<0.0001	<0.0001	2.E-18	2.E-18	1.E-19	<0.0001	<0.0001	2.E-19	3.E-20	5.E-17	<0.0001	7.E-14	2.E-12	4.E-11	2.E-18
Distance to Receptor	<0.0001	<0.0001	1.E-18	9.E-19	6.E-20	<0.0001	<0.0001	8.E-20	1.E-20	2.E-17	<0.0001	3.E-14	6.E-13	2.E-11	7.E-19
Double High End Parameters															
Exposure Duration/Waste Concentration	<0.0001	<0.0001	6.E-18	3.E-18	2.E-19	<0.0001	<0.0001	2.E-19	3.E-20	1.E-16	<0.0001	8.E-14	3.E-12	3.E-11	3.E-18
Exposure Duration/Child Soil Intake	<0.0001	<0.0001	5.E-18	5.E-18	3.E-19	<0.0001	<0.0001	4.E-19	7.E-20	1.E-16	<0.0001	2.E-13	4.E-12	9.E-11	4.E-18
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	2.E-18	2.E-18	1.E-19	<0.0001	<0.0001	2.E-19	3.E-20	4.E-17	<0.0001	6.E-14	1.E-12	3.E-11	2.E-18
Waste Concentration/ Child Soil Intake	<0.0001	<0.0001	9.E-18	4.E-18	3.E-19	<0.0001	<0.0001	2.E-19	5.E-20	2.E-16	<0.0001	1.E-13	5.E-12	4.E-11	4.E-18
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	4.E-18	2.E-18	1.E-19	<0.0001	<0.0001	9.E-20	2.E-20	7.E-17	<0.0001	5.E-14	2.E-12	2.E-11	2.E-18
Child Soil Intake/Distance to Receptor	<0.0001	<0.0001	3.E-18	3.E-18	2.E-19	<0.0001	<0.0001	3.E-19	4.E-20	6.E-17	<0.0001	9.E-14	2.E-12	5.E-11	2.E-18

**Table H.2-3e. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5, 7,8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7 ,8,9-	HxCDD, 1,2,3,4,7,8-	PeCDD, 1,2,3,7,8-	TCDF, 2,3,7,8-	HpCDF, 1,2,3,4,7,8,9-	PeCDF, 2,3,4,7,8-	PeCDF, 1,2,3,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF, 1,2,3,4,6,7,8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8,9-	TEQ
Central Tendency	NA	5.E-09	1.E-09	5.E-09	2.E-08	2.E-09	NA	2.E-10	8.E-09	1.E-08	7.E-10	2.E-08	1.E-09	1.E-08	4.E-08	2.E-08	7.E-09	1.E-07
Single High End Parameter																		
Exposure Duration	NA	1.E-08	2.E-09	1.E-08	5.E-08	4.E-09	NA	4.E-10	2.E-08	2.E-08	2.E-09	3.E-08	3.E-09	3.E-08	8.E-08	4.E-08	2.E-08	3.E-07
Waste Concentration	6.E-08	1.E-08	1.E-08	2.E-08	5.E-07	NA	NA	2.E-08	3.E-07	1.E-07	NA	NA	2.E-08	1.E-07	4.E-07	3.E-07	NA	<b>2.E-06</b>
Child Soil Intake	NA	1.E-08	3.E-09	1.E-08	7.E-08	5.E-09	NA	5.E-10	2.E-08	3.E-08	2.E-09	5.E-08	4.E-09	4.E-08	1.E-07	6.E-08	2.E-08	4.E-07
Distance to Receptor	NA	5.E-09	1.E-09	5.E-09	2.E-08	2.E-09	NA	2.E-10	7.E-09	9.E-09	7.E-10	2.E-08	1.E-09	1.E-08	4.E-08	2.E-08	7.E-09	1.E-07
Double High End Parameters																		
Exposure Duration/Waste Concentration	1.E-07	3.E-08	2.E-08	3.E-08	<b>1.E-06</b>	NA	NA	5.E-08	5.E-07	2.E-07	NA	NA	3.E-08	3.E-07	8.E-07	5.E-07	NA	<b>4.E-06</b>
Exposure Duration/Child Soil Intake	NA	3.E-08	6.E-09	3.E-08	1.E-07	1.E-08	NA	1.E-09	5.E-08	6.E-08	5.E-09	1.E-07	9.E-09	8.E-08	2.E-07	1.E-07	5.E-08	9.E-07
Exposure Duration/Distance to Receptor	NA	1.E-08	2.E-09	1.E-08	5.E-08	3.E-09	NA	3.E-10	2.E-08	2.E-08	2.E-09	3.E-08	3.E-09	3.E-08	8.E-08	4.E-08	2.E-08	3.E-07
Waste Concentration/ Child Soil Intake	2.E-07	4.E-08	3.E-08	5.E-08	<b>1.E-06</b>	NA	NA	7.E-08	7.E-07	3.E-07	NA	NA	5.E-08	4.E-07	<b>1.E-06</b>	8.E-07	NA	<b>5.E-06</b>
Waste Concentration/Distance to Receptor	5.E-08	1.E-08	1.E-08	2.E-08	4.E-07	NA	NA	2.E-08	2.E-07	1.E-07	NA	NA	2.E-08	1.E-07	4.E-07	3.E-07	NA	<b>2.E-06</b>
Child Soil Intake/Distance to Receptor	NA	1.E-08	3.E-09	1.E-08	7.E-08	5.E-09	NA	5.E-10	2.E-08	3.E-08	2.E-09	5.E-08	4.E-09	4.E-08	1.E-07	6.E-08	2.E-08	4.E-07



**Table H.2-3e. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Resident**

6/25/99

High End Parameter(s)	Manganese	Molybdenum	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Cobalt	Vanadium	Zinc
<b>Central Tendency</b>	<0.0001	<0.0001	0.0002	1.E-07	<0.0001	<0.0001	0.004	<0.0001	0.0001	<0.0001
<b>Single High End Parameter</b>										
Exposure Duration	<0.0001	<0.0001	0.0002	3.E-07	<0.0001	<0.0001	0.004	<0.0001	0.0001	<0.0001
Waste Concentration	0.0002	<0.0001	0.0004	3.E-07	<0.0001	<0.0001	0.01	<0.0001	0.0003	<0.0001
Child Soil Intake	0.0002	<0.0001	0.001	4.E-07	<0.0001	<0.0001	0.01	<0.0001	0.0004	<0.0001
Distance to Receptor	<0.0001	<0.0001	0.0002	1.E-07	<0.0001	<0.0001	0.004	<0.0001	0.0001	<0.0001
<b>Double High End Parameters</b>										
Exposure Duration/Waste Concentration	0.0002	<0.0001	0.0004	7.E-07	<0.0001	<0.0001	0.01	<0.0001	0.0003	<0.0001
Exposure Duration/Child Soil Intake	0.0002	<0.0001	0.001	8.E-07	<0.0001	<0.0001	0.01	<0.0001	0.0004	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	0.0002	3.E-07	<0.0001	<0.0001	0.004	<0.0001	0.0001	<0.0001
Waste Concentration/ Child Soil Intake	0.0005	<0.0001	0.001	<b>1.E-06</b>	0.0001	<0.0001	0.03	<0.0001	0.001	0.0001
Waste Concentration/Distance to Receptor	0.0002	<0.0001	0.0004	3.E-07	<0.0001	<0.0001	0.01	<0.0001	0.0003	<0.0001
Child Soil Intake/Distance to Receptor	0.0002	<0.0001	0.001	4.E-07	<0.0001	<0.0001	0.01	<0.0001	0.0004	<0.0001

**Table H.2-3f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chloroethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachloro benzene	Tetrachloro ethylene
<b>Central Tendency</b>	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	1.E-08	2.E-10	6.E-16
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	2.E-15	4.E-14	4.E-16	<0.0001	<0.0001	8.E-17	3.E-16	4.E-14	<0.0001	1.E-11	3.E-08	5.E-10	1.E-15
Beef intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	3.E-08	5.E-10	6.E-16
Dairy Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	2.E-08	4.E-10	6.E-16
Exposed Veg. Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	6.E-17	3.E-16	3.E-14	<0.0001	1.E-11	1.E-08	2.E-10	1.E-15
Root Veg. Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	1.E-08	2.E-10	6.E-16
Fruit Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	1.E-08	3.E-10	3.E-15
Waste Concentration	<0.0001	<0.0001	4.E-15	4.E-14	4.E-16	<0.0001	<0.0001	4.E-17	2.E-16	7.E-14	<0.0001	9.E-12	4.E-08	2.E-10	1.E-15
Child Soil Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	1.E-08	3.E-10	6.E-16
Distance to Receptor	<0.0001	<0.0001	3.E-15	6.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	9.E-12	3.E-08	5.E-10	2.E-15
<b>Double High End Parameters</b>															
Exposure Duration/Beef Intake	<0.0001	<0.0001	2.E-15	4.E-14	4.E-16	<0.0001	<0.0001	8.E-17	3.E-16	4.E-14	<0.0001	1.E-11	6.E-08	9.E-10	1.E-15
Exposure Duration/Dairy Intake	<0.0001	<0.0001	2.E-15	4.E-14	4.E-16	<0.0001	<0.0001	8.E-17	3.E-16	4.E-14	<0.0001	1.E-11	5.E-08	8.E-10	1.E-15
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	4.E-15	7.E-14	7.E-16	<0.0001	<0.0001	1.E-16	5.E-16	6.E-14	<0.0001	2.E-11	3.E-08	5.E-10	2.E-15
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	2.E-15	4.E-14	4.E-16	<0.0001	<0.0001	8.E-17	3.E-16	4.E-14	<0.0001	1.E-11	3.E-08	5.E-10	1.E-15
Exposure Duration/Fruit Intake	<0.0001	<0.0001	1.E-14	2.E-13	2.E-15	<0.0001	<0.0001	3.E-16	1.E-15	2.E-13	<0.0001	4.E-11	3.E-08	5.E-10	5.E-15
Exposure Duration/Waste Concentration	<0.0001	<0.0001	9.E-15	7.E-14	9.E-16	<0.0001	<0.0001	9.E-17	4.E-16	1.E-13	<0.0001	2.E-11	7.E-08	5.E-10	3.E-15
Exposure Duration/Child Soil Intake	<0.0001	<0.0001	2.E-15	4.E-14	4.E-16	<0.0001	<0.0001	8.E-17	3.E-16	4.E-14	<0.0001	1.E-11	3.E-08	5.E-10	1.E-15
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	7.E-15	1.E-13	1.E-15	<0.0001	<0.0001	2.E-16	9.E-16	1.E-13	<0.0001	2.E-11	7.E-08	9.E-10	4.E-15
Beef Intake/ Dairy Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	4.E-08	6.E-10	6.E-16
Beef Intake/ Exposed Veg. Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	7.E-17	3.E-16	3.E-14	<0.0001	1.E-11	3.E-08	5.E-10	1.E-15
Beef Intake/Root Vegetable Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	3.E-08	5.E-10	6.E-16
Beef Intake/Fruit Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	3.E-08	5.E-10	3.E-15
Beef Intake/Waste Concentration	<0.0001	<0.0001	4.E-15	4.E-14	4.E-16	<0.0001	<0.0001	4.E-17	2.E-16	7.E-14	<0.0001	9.E-12	7.E-08	5.E-10	1.E-15
Beef Intake/Child Soil Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	3.E-08	5.E-10	6.E-16
Beef Intake/Distance to Receptor	<0.0001	<0.0001	3.E-15	6.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	9.E-12	7.E-08	9.E-10	2.E-15
Dairy Intake/Exposed Vegetable Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	7.E-17	3.E-16	3.E-14	<0.0001	1.E-11	2.E-08	4.E-10	1.E-15
Dairy Intake/Root Vegetable Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	2.E-08	4.E-10	6.E-16
Dairy Intake/Fruit Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	2.E-08	4.E-10	3.E-15
Dairy Intake/Waste Concentration	<0.0001	<0.0001	4.E-15	4.E-14	4.E-16	<0.0001	<0.0001	4.E-17	2.E-16	7.E-14	<0.0001	9.E-12	6.E-08	4.E-10	1.E-15
Dairy Intake/ Child Soil Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	2.E-08	4.E-10	6.E-16
Dairy Intake/Distance to Receptor	<0.0001	<0.0001	3.E-15	6.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	9.E-12	6.E-08	7.E-10	2.E-15
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	6.E-17	3.E-16	3.E-14	<0.0001	1.E-11	1.E-08	2.E-10	1.E-15

**Table H.2-3f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Farmer**

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High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachloro benzene	Tetrachloro ethylene
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	6.E-15	9.E-14	9.E-16	<0.0001	<0.0001	2.E-16	7.E-16	9.E-14	<0.0001	3.E-11	1.E-08	3.E-10	3.E-15
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	7.E-15	6.E-14	7.E-16	<0.0001	<0.0001	7.E-17	3.E-16	1.E-13	<0.0001	2.E-11	4.E-08	2.E-10	2.E-15
Exposed Veg. Intake/Child Soil Intake	<0.0001	<0.0001	2.E-15	3.E-14	3.E-16	<0.0001	<0.0001	6.E-17	3.E-16	3.E-14	<0.0001	1.E-11	1.E-08	3.E-10	1.E-15
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	5.E-15	9.E-14	9.E-16	<0.0001	<0.0001	2.E-16	7.E-16	8.E-14	<0.0001	2.E-11	3.E-08	5.E-10	3.E-15
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	1.E-08	3.E-10	3.E-15
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	4.E-15	4.E-14	4.E-16	<0.0001	<0.0001	4.E-17	2.E-16	7.E-14	<0.0001	1.E-11	4.E-08	2.E-10	1.E-15
Root Veg. Intake/Child Soil Intake	<0.0001	<0.0001	1.E-15	2.E-14	2.E-16	<0.0001	<0.0001	4.E-17	2.E-16	2.E-14	<0.0001	6.E-12	1.E-08	3.E-10	6.E-16
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	3.E-15	6.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	9.E-12	3.E-08	5.E-10	2.E-15
Fruit Intake/Waste Concentration	<0.0001	<0.0001	2.E-14	2.E-13	2.E-15	<0.0001	<0.0001	2.E-16	9.E-16	3.E-13	<0.0001	3.E-11	4.E-08	3.E-10	5.E-15
Fruit Intake/Child Soil Intake	<0.0001	<0.0001	5.E-15	8.E-14	8.E-16	<0.0001	<0.0001	2.E-16	6.E-16	7.E-14	<0.0001	2.E-11	1.E-08	3.E-10	3.E-15
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	1.E-14	2.E-13	2.E-15	<0.0001	<0.0001	5.E-16	2.E-15	2.E-13	<0.0001	3.E-11	3.E-08	5.E-10	7.E-15
Waste Concentration/ Child Soil Intake	<0.0001	<0.0001	4.E-15	4.E-14	4.E-16	<0.0001	<0.0001	4.E-17	2.E-16	7.E-14	<0.0001	9.E-12	4.E-08	3.E-10	1.E-15
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	1.E-14	1.E-13	1.E-15	<0.0001	<0.0001	1.E-16	6.E-16	2.E-13	<0.0001	2.E-11	9.E-08	5.E-10	3.E-15
Child Soil Intake/Distance to Receptor	<0.0001	<0.0001	3.E-15	6.E-14	5.E-16	<0.0001	<0.0001	1.E-16	4.E-16	5.E-14	<0.0001	9.E-12	3.E-08	5.E-10	2.E-15

**Table H.2-3f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5, 7,8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF, 1,2,3,4,7,8, 9-	PeCDF, 2,3,4,7,8-	PeCDF, 1,2,3,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF, 1,2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8, 9-	TEQ
<b>Central Tendency</b>	NA	5.E-08	5.E-08	2.E-08	1.E-07	6.E-08	2.E-09	2.E-07	8.E-07	2.E-08	4.E-07	7.E-08	3.E-07	4.E-07	6.E-07	2.E-07	<b>3.E-06</b>
<b>Single High End Parameter</b>																	
Exposure Duration	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	3.E-08	7.E-07	1.E-07	6.E-07	7.E-07	<b>1.E-06</b>	4.E-07	<b>6.E-06</b>
Beef Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	4.E-08	8.E-07	2.E-07	7.E-07	9.E-07	<b>2.E-06</b>	4.E-07	<b>7.E-06</b>
Dairy Intake	NA	6.E-08	8.E-08	3.E-08	1.E-07	8.E-08	3.E-09	3.E-07	<b>1.E-06</b>	2.E-08	5.E-07	1.E-07	4.E-07	6.E-07	9.E-07	3.E-07	<b>5.E-06</b>
Exposed Veg. Intake	NA	5.E-08	5.E-08	2.E-08	1.E-07	6.E-08	2.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	4.E-07	6.E-07	2.E-07	<b>3.E-06</b>
Root Veg. Intake	NA	5.E-08	5.E-08	2.E-08	1.E-07	6.E-08	2.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	4.E-07	6.E-07	2.E-07	<b>3.E-06</b>
Fruit Intake	NA	5.E-08	5.E-08	2.E-08	1.E-07	6.E-08	2.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	4.E-07	7.E-07	2.E-07	<b>3.E-06</b>
Waste Concentration	<b>3.E-06</b>	1.E-07	6.E-07	8.E-08	<b>2.E-06</b>	NA	3.E-07	<b>5.E-06</b>	<b>1.E-05</b>	NA	NA	7.E-07	<b>3.E-06</b>	<b>4.E-06</b>	<b>8.E-06</b>	NA	<b>4.E-05</b>
Child Soil Intake	NA	6.E-08	5.E-08	3.E-08	1.E-07	6.E-08	2.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	5.E-07	7.E-07	2.E-07	<b>3.E-06</b>
Distance to Receptor	NA	9.E-08	1.E-07	4.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	3.E-08	6.E-07	1.E-07	5.E-07	8.E-07	<b>1.E-06</b>	3.E-07	<b>6.E-06</b>
<b>Double High End Parameters</b>																	
Exposure Duration/Beef Intake	NA	2.E-07	2.E-07	1.E-07	4.E-07	3.E-07	8.E-09	6.E-07	<b>4.E-06</b>	7.E-08	<b>2.E-06</b>	3.E-07	<b>2.E-06</b>	<b>2.E-06</b>	<b>3.E-06</b>	8.E-07	<b>1.E-05</b>
Exposure Duration/Dairy Intake	NA	1.E-07	2.E-07	6.E-08	3.E-07	2.E-07	6.E-09	5.E-07	<b>2.E-06</b>	5.E-08	<b>1.E-06</b>	2.E-07	9.E-07	<b>1.E-06</b>	<b>2.E-06</b>	5.E-07	<b>9.E-06</b>
Exposure Duration/Exposed Veg. Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	3.E-08	7.E-07	1.E-07	6.E-07	8.E-07	<b>1.E-06</b>	4.E-07	<b>6.E-06</b>
Exposure Duration/Root Veg. Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	3.E-08	7.E-07	1.E-07	6.E-07	8.E-07	<b>1.E-06</b>	4.E-07	<b>6.E-06</b>
Exposure Duration/Fruit Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	3.E-08	7.E-07	1.E-07	6.E-07	8.E-07	<b>1.E-06</b>	4.E-07	<b>6.E-06</b>
Exposure Duration/Waste Concentration	<b>6.E-06</b>	3.E-07	<b>1.E-06</b>	2.E-07	<b>4.E-06</b>	NA	5.E-07	<b>1.E-05</b>	<b>2.E-05</b>	NA	NA	<b>1.E-06</b>	<b>5.E-06</b>	<b>7.E-06</b>	<b>2.E-05</b>	NA	<b>7.E-05</b>
Exposure Duration/Child Soil Intake	NA	1.E-07	1.E-07	7.E-08	3.E-07	1.E-07	5.E-09	3.E-07	<b>2.E-06</b>	3.E-08	8.E-07	1.E-07	7.E-07	9.E-07	<b>1.E-06</b>	4.E-07	<b>7.E-06</b>
Exposure Duration/Distance to Receptor	NA	2.E-07	2.E-07	7.E-08	3.E-07	2.E-07	7.E-09	6.E-07	<b>3.E-06</b>	6.E-08	<b>1.E-06</b>	3.E-07	<b>1.E-06</b>	<b>2.E-06</b>	<b>2.E-06</b>	6.E-07	<b>1.E-05</b>
Beef Intake/ Dairy Intake	NA	1.E-07	1.E-07	6.E-08	2.E-07	2.E-07	5.E-09	4.E-07	<b>2.E-06</b>	4.E-08	<b>1.E-06</b>	2.E-07	9.E-07	<b>1.E-06</b>	<b>2.E-06</b>	5.E-07	<b>9.E-06</b>
Beef Intake/ Exposed Veg. Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	4.E-08	8.E-07	2.E-07	7.E-07	9.E-07	<b>2.E-06</b>	4.E-07	<b>7.E-06</b>
Beef Intake/Root Vegetable Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	4.E-08	8.E-07	2.E-07	7.E-07	9.E-07	<b>2.E-06</b>	4.E-07	<b>7.E-06</b>
Beef Intake/Fruit Intake	NA	1.E-07	1.E-07	5.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	4.E-08	8.E-07	2.E-07	7.E-07	9.E-07	<b>2.E-06</b>	4.E-07	<b>8.E-06</b>
Beef Intake/Waste Concentration	<b>8.E-06</b>	3.E-07	<b>1.E-06</b>	2.E-07	<b>4.E-06</b>	NA	6.E-07	<b>1.E-05</b>	<b>2.E-05</b>	NA	NA	<b>2.E-06</b>	<b>7.E-06</b>	<b>9.E-06</b>	<b>2.E-05</b>	NA	<b>8.E-05</b>
Beef Intake/Child Soil Intake	NA	1.E-07	1.E-07	6.E-08	3.E-07	1.E-07	5.E-09	3.E-07	<b>2.E-06</b>	4.E-08	9.E-07	2.E-07	8.E-07	9.E-07	<b>2.E-06</b>	4.E-07	<b>8.E-06</b>
Beef Intake/Distance to Receptor	NA	2.E-07	2.E-07	8.E-08	3.E-07	3.E-07	7.E-09	7.E-07	<b>4.E-06</b>	8.E-08	<b>1.E-06</b>	3.E-07	<b>1.E-06</b>	<b>2.E-06</b>	<b>3.E-06</b>	7.E-07	<b>1.E-05</b>
Dairy Intake/Exposed Vegetable Intake	NA	7.E-08	8.E-08	3.E-08	1.E-07	8.E-08	3.E-09	3.E-07	<b>1.E-06</b>	3.E-08	5.E-07	1.E-07	4.E-07	6.E-07	9.E-07	3.E-07	<b>5.E-06</b>
Dairy Intake/Root Vegetable Intake	NA	7.E-08	8.E-08	3.E-08	1.E-07	8.E-08	3.E-09	3.E-07	<b>1.E-06</b>	3.E-08	5.E-07	1.E-07	4.E-07	6.E-07	9.E-07	3.E-07	<b>5.E-06</b>
Dairy Intake/Fruit Intake	NA	7.E-08	8.E-08	3.E-08	1.E-07	9.E-08	4.E-09	3.E-07	<b>1.E-06</b>	3.E-08	5.E-07	1.E-07	4.E-07	6.E-07	9.E-07	3.E-07	<b>5.E-06</b>
Dairy Intake/Waste Concentration	<b>4.E-06</b>	2.E-07	9.E-07	1.E-07	<b>3.E-06</b>	NA	4.E-07	<b>8.E-06</b>	<b>2.E-05</b>	NA	NA	<b>1.E-06</b>	<b>4.E-06</b>	<b>6.E-06</b>	<b>1.E-05</b>	NA	<b>5.E-05</b>
Dairy Intake/ Child Soil Intake	NA	7.E-08	8.E-08	4.E-08	2.E-07	9.E-08	4.E-09	3.E-07	<b>1.E-06</b>	3.E-08	6.E-07	1.E-07	5.E-07	6.E-07	1.E-06	3.E-07	<b>5.E-06</b>
Dairy Intake/Distance to Receptor	NA	1.E-07	2.E-07	5.E-08	2.E-07	2.E-07	6.E-09	6.E-07	<b>3.E-06</b>	5.E-08	9.E-07	2.E-07	8.E-07	<b>1.E-06</b>	<b>2.E-06</b>	5.E-07	<b>9.E-06</b>
Exposed Veg. Intake/ Root Veg. Intake	NA	5.E-08	5.E-08	2.E-08	1.E-07	6.E-08	2.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	4.E-07	6.E-07	2.E-07	<b>3.E-06</b>

**Table H.2-3f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5, 7,8,9-	HxCDD, 1,2,3,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7, 8,9-	HxCDD, 1,2,3,4,7,8-	TCDF, 2,3,7,8-	HpCDF, 1,2,3,4,7,8, 9-	PeCDF, 2,3,4,7,8-	PeCDF, 1,2,3,7,8-	HxCDF, 1,2,3,6,7,8-	HxCDD, 1,2,3,6,7,8-	HxCDF, 2,3,4,6,7,8-	HpCDF, 1,2,3,4,6,7, 8-	HxCDF, 1,2,3,4,7,8-	HxCDF, 1,2,3,7,8, 9-	TEQ
Exposed Veg. Intake/ Fruit Intake	NA	5.E-08	5.E-08	2.E-08	1.E-07	6.E-08	2.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	4.E-07	7.E-07	2.E-07	<b>3.E-06</b>
Exposed Veg. Intake/Waste Concentration	<b>3.E-06</b>	1.E-07	6.E-07	8.E-08	<b>2.E-06</b>	NA	3.E-07	<b>5.E-06</b>	<b>1.E-05</b>	NA	NA	7.E-07	<b>3.E-06</b>	<b>4.E-06</b>	<b>8.E-06</b>	NA	<b>4.E-05</b>
Exposed Veg. Intake/Child Soil Intake	NA	6.E-08	5.E-08	3.E-08	1.E-07	6.E-08	3.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	5.E-07	7.E-07	2.E-07	<b>4.E-06</b>
Exposed Veg. Intake/Distance to Receptor	NA	9.E-08	1.E-07	4.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	4.E-08	6.E-07	1.E-07	5.E-07	8.E-07	<b>1.E-06</b>	3.E-07	<b>6.E-06</b>
Root Veg. Intake/Fruit Intake	NA	6.E-08	5.E-08	3.E-08	1.E-07	6.E-08	2.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	4.E-07	7.E-07	2.E-07	<b>3.E-06</b>
Root Veg. Intake/Waste Concentration	<b>3.E-06</b>	2.E-07	6.E-07	8.E-08	<b>2.E-06</b>	NA	3.E-07	<b>5.E-06</b>	<b>1.E-05</b>	NA	NA	7.E-07	<b>3.E-06</b>	<b>4.E-06</b>	<b>8.E-06</b>	NA	<b>4.E-05</b>
Root Veg. Intake/Child Soil Intake	NA	6.E-08	5.E-08	3.E-08	2.E-07	6.E-08	3.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	5.E-07	7.E-07	2.E-07	<b>4.E-06</b>
Root Veg. Intake/Distance to Receptor	NA	1.E-07	1.E-07	4.E-08	2.E-07	1.E-07	4.E-09	3.E-07	<b>2.E-06</b>	4.E-08	6.E-07	1.E-07	5.E-07	8.E-07	<b>1.E-06</b>	3.E-07	<b>6.E-06</b>
Fruit Intake/Waste Concentration	<b>3.E-06</b>	2.E-07	6.E-07	8.E-08	<b>2.E-06</b>	NA	3.E-07	<b>6.E-06</b>	<b>1.E-05</b>	NA	NA	7.E-07	<b>3.E-06</b>	<b>4.E-06</b>	<b>9.E-06</b>	NA	<b>4.E-05</b>
Fruit Intake/Child Soil Intake	NA	6.E-08	5.E-08	3.E-08	2.E-07	6.E-08	3.E-09	2.E-07	9.E-07	2.E-08	4.E-07	7.E-08	3.E-07	5.E-07	7.E-07	2.E-07	<b>4.E-06</b>
Fruit Intake/Distance to Receptor	NA	1.E-07	1.E-07	4.E-08	2.E-07	1.E-07	4.E-09	4.E-07	<b>2.E-06</b>	4.E-08	6.E-07	1.E-07	5.E-07	9.E-07	<b>1.E-06</b>	3.E-07	<b>7.E-06</b>
Waste Concentration/ Child Soil Intake	<b>3.E-06</b>	2.E-07	6.E-07	1.E-07	<b>3.E-06</b>	NA	3.E-07	<b>6.E-06</b>	<b>1.E-05</b>	NA	NA	7.E-07	<b>3.E-06</b>	<b>5.E-06</b>	<b>9.E-06</b>	NA	<b>4.E-05</b>
Waste Concentration/Distance to Receptor	<b>5.E-06</b>	3.E-07	<b>1.E-06</b>	1.E-07	<b>3.E-06</b>	NA	5.E-07	<b>1.E-05</b>	<b>2.E-05</b>	NA	NA	<b>2.E-06</b>	<b>5.E-06</b>	<b>8.E-06</b>	<b>2.E-05</b>	NA	<b>7.E-05</b>
Child Soil Intake/Distance to Receptor	NA	1.E-07	1.E-07	4.E-08	2.E-07	1.E-07	4.E-09	4.E-07	<b>2.E-06</b>	4.E-08	6.E-07	1.E-07	6.E-07	9.E-07	<b>1.E-06</b>	3.E-07	<b>7.E-06</b>

**Table H.2-3f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	Manganese	Molybdenum	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Cobalt	Vanadium	Zinc
<b>Central Tendency</b>	0.001	<0.0001	0.002	4.E-07	0.0001	<0.0001	0.02	<0.0001	0.0004	0.0001
<b>Single High End Parameter</b>										
Exposure Duration	0.001	<0.0001	0.002	8.E-07	0.0001	<0.0001	0.02	<0.0001	0.0004	<0.0001
Beef Intake	0.0008	0.0001	0.004	6.E-07	0.0001	<0.0001	0.03	<0.0001	0.001	0.0001
Dairy Intake	0.001	<0.0001	0.002	4.E-07	0.0002	<0.0001	0.02	<0.0001	0.001	0.0001
Exposed Veg. Intake	0.001	<0.0001	0.002	6.E-07	0.0002	<0.0001	0.02	<0.0001	0.0004	0.0002
Root Veg. Intake	0.001	<0.0001	0.002	4.E-07	0.0001	<0.0001	0.02	<0.0001	0.0004	0.0001
Fruit Intake	0.002	<0.0001	0.002	8.E-07	0.000	<0.0001	0.02	<0.0001	0.0005	0.0003
Waste Concentration	0.002	0.0001	0.003	<b>1.E-06</b>	0.0003	<0.0001	0.04	<0.0001	0.001	0.0003
Child Soil Intake	0.001	<0.0001	0.002	6.E-07	0.0002	<0.0001	0.02	<0.0001	0.001	0.0001
Distance to Receptor	0.0007	<0.0001	0.002	4.E-07	0.0002	<0.0001	0.02	<0.0001	0.0004	0.0001
<b>Double High End Parameters</b>										
Exposure Duration/Beef Intake	0.001	0.0001	0.004	<b>1.E-06</b>	0.0001	<0.0001	0.03	<0.0001	0.001	<0.0001
Exposure Duration/Dairy Intake	0.001	<0.0001	0.002	9.E-07	0.0002	<0.0001	0.02	<0.0001	0.001	<0.0001
Exposure Duration/Exposed Veg. Intake	0.001	<0.0001	0.002	<b>1.E-06</b>	0.0002	<0.0001	0.02	<0.0001	0.0004	0.0002
Exposure Duration/Root Veg. Intake	0.001	<0.0001	0.002	9.E-07	0.0001	<0.0001	0.02	<0.0001	0.0004	0.0001
Exposure Duration/Fruit Intake	0.002	<0.0001	0.002	<b>2.E-06</b>	0.0004	<0.0001	0.02	<0.0001	0.0005	0.0003
Exposure Duration/Waste Concentration	0.002	0.0001	0.003	<b>2.E-06</b>	0.0003	<0.0001	0.04	<0.0001	0.001	0.0002
Exposure Duration/Child Soil Intake	0.001	<0.0001	0.002	<b>1.E-06</b>	0.0002	<0.0001	0.02	<0.0001	0.001	0.0001
Exposure Duration/Distance to Receptor	0.001	<0.0001	0.002	9.E-07	0.0002	<0.0001	0.02	<0.0001	0.0004	0.0001
Beef Intake/ Dairy Intake	0.001	0.0001	0.005	7.E-07	0.0002	<0.0001	0.04	<0.0001	0.001	0.0001
Beef Intake/ Exposed Veg. Intake	0.001	0.0001	0.004	8.E-07	0.0002	<0.0001	0.03	<0.0001	0.001	0.0002
Beef Intake/Root Vegetable Intake	0.001	0.0001	0.004	7.E-07	0.0002	<0.0001	0.03	<0.0001	0.001	0.0001
Beef Intake/Fruit Intake	0.003	0.0001	0.005	<b>1.E-06</b>	0.0004	<0.0001	0.04	<0.0001	0.001	0.0004
Beef Intake/Waste Concentration	0.002	0.0002	0.01	<b>2.E-06</b>	0.0003	<0.0001	0.1	<0.0001	0.001	0.0004
Beef Intake/Child Soil Intake	0.001	0.0001	0.005	9.E-07	0.0002	<0.0001	0.04	<0.0001	0.001	0.0001
Beef Intake/Distance to Receptor	0.001	0.0001	0.004	7.E-07	0.0002	<0.0001	0.03	<0.0001	0.001	0.0001
Dairy Intake/Exposed Vegetable Intake	0.001	<0.0001	0.003	6.E-07	0.0002	<0.0001	0.02	<0.0001	0.001	0.0002
Dairy Intake/Root Vegetable Intake	0.001	<0.0001	0.002	5.E-07	0.0002	<0.0001	0.02	<0.0001	0.001	0.0001
Dairy Intake/Fruit Intake	0.003	0.0001	0.003	8.E-07	0.0004	<0.0001	0.03	<0.0001	0.001	0.0003
Dairy Intake/Waste Concentration	0.002	0.0002	0.004	<b>1.E-06</b>	0.0003	<0.0001	0.1	<0.0001	0.002	0.0004
Dairy Intake/ Child Soil Intake	0.001	<0.0001	0.003	6.E-07	0.0002	<0.0001	0.03	<0.0001	0.001	0.0001
Dairy Intake/Distance to Receptor	0.001	0.0001	0.002	4.E-07	0.0002	<0.0001	0.02	<0.0001	0.001	0.0001
Exposed Veg. Intake/ Root Veg. Intake	0.001	<0.0001	0.002	6.E-07	0.00021	<0.0001	0.02	<0.0001	0.0005	0.0002

**Table H.2-3f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Farmer**

6/25/99

High End Parameter(s)	Manganese	Molybdenum	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Cobalt	Vanadium	Zinc
Exposed Veg. Intake/ Fruit Intake	0.003	<0.0001	0.003	<b>1.E-06</b>	0.0004	<0.0001	0.02	<0.0001	0.001	0.0004
Exposed Veg. Intake/Waste Concentration	0.003	0.0001	0.003	<b>2.E-06</b>	0.0005	<0.0001	0.05	<0.0001	0.001	0.0007
Exposed Veg. Intake/Child Soil Intake	0.001	<0.0001	0.003	8.E-07	0.0003	<0.0001	0.02	<0.0001	0.001	0.0002
Exposed Veg. Intake/Distance to Receptor	0.001	<0.0001	0.002	6.E-07	0.0003	<0.0001	0.02	<0.0001	0.0005	0.0002
Root Veg. Intake/Fruit Intake	0.003	<0.0001	0.003	9.E-07	0.0004	<0.0001	0.02	<0.0001	0.001	0.0004
Root Veg. Intake/Waste Concentration	0.002	0.0001	0.003	<b>1.E-06</b>	0.0003	<0.0001	0.05	<0.0001	0.001	0.0004
Root Veg. Intake/Child Soil Intake	0.001	<0.0001	0.002	7.E-07	0.0002	<0.0001	0.02	<0.0001	0.001	0.0002
Root Veg. Intake/Distance to Receptor	0.001	<0.0001	0.002	5.E-07	0.0002	<0.0001	0.02	<0.0001	0.0004	0.0001
Fruit Intake/Waste Concentration	0.004	0.0002	0.004	<b>2.E-06</b>	0.0008	<0.0001	0.1	<0.0001	0.001	0.001
Fruit Intake/Child Soil Intake	0.003	<0.0001	0.003	<b>1.E-06</b>	0.0004	<0.0001	0.03	<0.0001	0.001	0.0004
Fruit Intake/Distance to Receptor	0.002	<0.0001	0.003	9.E-07	0.0004	<0.0001	0.02	<0.0001	0.0005	0.0003
Waste Concentration/ Child Soil Intake	0.002	0.0001	0.004	<b>2.E-06</b>	0.0003	<0.0001	0.1	<0.0001	0.002	0.0004
Waste Concentration/Distance to Receptor	0.002	0.0001	0.003	<b>1.E-06</b>	0.0003	<0.0001	0.1	<0.0001	0.001	0.0004
Child Soil Intake/Distance to Receptor	0.001	<0.0001	0.003	7.E-07	0.0002	<0.0001	0.02	<0.0001	0.001	0.0001

**Table H.2-4a. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Adult Resident, Gardener, and Fisher**

6/25/99

High End Parameter(s)	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloro ethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Hexachloro benzene	Tetrachloro ethylene
<b>Central Tendency</b>	3E-11	6E-12	7E-14	<0.0001	<0.0001	4E-14	<0.0001	3E-11	<0.0001	1E-09	4E-10	5E-14
<b>Single High End Parameter</b>												
Exposure Duration	1E-10	2E-11	2E-13	<0.0001	<0.0001	1E-13	<0.0001	1E-10	<0.0001	4E-09	1E-09	2E-13
Waste Concentration	1E-10	1E-11	2E-13	<0.0001	<0.0001	5E-14	<0.0001	1E-10	<0.0001	2E-09	4E-10	1E-13
Distance to Receptor	8E-11	2E-11	2E-13	<0.0001	<0.0001	1E-13	<0.0001	8E-11	<0.0001	3E-09	1E-09	1E-13
Inhalation Rate	5E-11	9E-12	1E-13	<0.0001	<0.0001	6E-14	<0.0001	5E-11	<0.0001	2E-09	6E-10	7E-14
<b>Double High End Parameters</b>												
Exposure Duration/Waste Concentration	4E-10	4E-11	5E-13	<0.0001	<0.0001	2E-13	<0.0001	4E-10	<0.0001	6E-09	1E-09	3E-13
Exposure Duration/Distance to Receptor	3E-10	5E-11	6E-13	<0.0001	<0.0001	4E-13	<0.0001	3E-10	<0.0001	9E-09	3E-09	4E-13
Exposure Duration/Inhalation Rate	2E-10	3E-11	4E-13	<0.0001	<0.0001	2E-13	<0.0001	2E-10	<0.0001	5E-09	2E-09	2E-13
Waste Concentration/Distance to Receptor	3E-10	3E-11	4E-13	<0.0001	<0.0001	1E-13	<0.0001	3E-10	<0.0001	4E-09	1E-09	3E-13
Waste Concentration/Inhalation Rate	2E-10	2E-11	2E-13	<0.0001	<0.0001	7E-14	<0.0001	2E-10	<0.0001	3E-09	6E-10	1E-13
Distance to Receptor/Inhalation Rate	1E-10	2E-11	3E-13	<0.0001	<0.0001	2E-13	<0.0001	1E-10	<0.0001	4E-09	1E-09	2E-13



**Table H.2-4a. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Adult Resident, Gardener, and Fisher**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5, 7,8,9-	HxCDD 1,2,3,7,8, 9-	HpCDD 1,2,3,4,6, 7,8,-	OCDF 1,2,3,4,6, 7,8,9-	HxCDD 1,2,3,4,7, 8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1, 2,3,4,7,8, 9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7, 8-	HxCDD 1,2,3,6,7, 8-	HxCDF 2,3,4,6,7, 8-	HpCDF1, 2,3,4,6,7, 8-	HxCDF 1,2,3,4,7, 8-	HxCDF 1,2,3,7,8, 9-	TEQ
Central Tendency	NA	3.E-11	7.E-11	1.E-10	2.E-10	6.E-11	NA	2.E-11	5.E-10	7.E-10	6.E-11	8.E-10	9.E-11	8.E-10	3.E-09	1.E-09	4.E-10	8.E-09
Single High End Parameter																		
Exposure Duration	NA	8.E-11	2.E-10	3.E-10	5.E-10	2.E-10	NA	6.E-11	1.E-09	2.E-09	2.E-10	2.E-09	3.E-10	2.E-09	7.E-09	4.E-09	1.E-09	2.E-08
Waste Concentration	9.E-09	7.E-11	7.E-10	3.E-10	3.E-09	NA	NA	3.E-09	2.E-08	8.E-09	NA	NA	1.E-09	7.E-09	3.E-08	2.E-08	NA	9.E-08
Distance to Receptor	NA	7.E-11	2.E-10	2.E-10	4.E-10	2.E-10	NA	6.E-11	1.E-09	2.E-09	2.E-10	2.E-09	2.E-10	2.E-09	6.E-09	3.E-09	1.E-09	2.E-08
Inhalation Rate	NA	4.E-11	1.E-10	1.E-10	2.E-10	9.E-11	NA	3.E-11	7.E-10	1.E-09	9.E-11	1.E-09	1.E-10	1.E-09	4.E-09	2.E-09	6.E-10	1.E-08
Double High End Parameters																		
Exposure Duration/Waste Concentration	2.E-08	2.E-10	2.E-09	1.E-09	1.E-08	NA	NA	8.E-09	5.E-08	2.E-08	NA	NA	3.E-09	2.E-08	7.E-08	5.E-08	NA	3.E-07
Exposure Duration/Distance to Receptor	NA	2.E-10	5.E-10	8.E-10	1.E-09	5.E-10	NA	1.E-10	4.E-09	5.E-09	4.E-10	6.E-09	7.E-10	6.E-09	2.E-08	1.E-08	3.E-09	6.E-08
Exposure Duration/Inhalation Rate	NA	1.E-10	3.E-10	4.E-10	8.E-10	3.E-10	NA	9.E-11	2.E-09	3.E-09	3.E-10	3.E-09	4.E-10	3.E-09	1.E-08	6.E-09	2.E-09	3.E-08
Waste Concentration/Distance to Receptor	2.E-08	2.E-10	2.E-09	8.E-10	8.E-09	NA	NA	8.E-09	4.E-08	2.E-08	NA	NA	2.E-09	2.E-08	6.E-08	5.E-08	NA	2.E-07
Waste Concentration/Inhalation Rate	1.E-08	1.E-10	1.E-09	5.E-10	5.E-09	NA	NA	4.E-09	2.E-08	1.E-08	NA	NA	1.E-09	1.E-08	4.E-08	3.E-08	NA	1.E-07
Distance to Receptor/Inhalation Rate	NA	1.E-10	2.E-10	4.E-10	6.E-10	2.E-10	NA	8.E-11	2.E-09	3.E-09	2.E-10	3.E-09	3.E-10	3.E-09	9.E-09	5.E-09	2.E-09	3.E-08

**Table H.2-4a. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Adult Resident, Gardener, and Fisher**

6/25/99

High End Parameter(s)	Manganese	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Zinc
<b>Central Tendency</b>	0.003	1.E-09	4.E-09	<0.0001	4.E-12	1.E-07	0.0001
<b>Single High End Parameter</b>							
Exposure Duration	0.003	5.E-09	1.E-08	<0.0001	1.E-11	5.E-07	0.0001
Waste Concentration	0.01	3.E-09	1.E-08	0.0001	8.E-12	4.E-07	0.0003
Distance to Receptor	0.01	4.E-09	1.E-08	0.0002	1.E-11	4.E-07	0.0003
Inhalation Rate	0.003	2.E-09	6.E-09	<0.0001	6.E-12	2.E-07	0.0001
<b>Double High End Parameters</b>							
Exposure Duration/Waste Concentration	0.01	8.E-09	4.E-08	0.0001	3.E-11	<b>1.E-06</b>	0.0003
Exposure Duration/Distance to Receptor	0.01	1.E-08	4.E-08	0.0002	4.E-11	<b>1.E-06</b>	0.0003
Exposure Duration/Inhalation Rate	0.003	7.E-09	2.E-08	<0.0001	2.E-11	7.E-07	0.0001
Waste Concentration/Distance to Receptor	0.02	7.E-09	3.E-08	0.000	2.E-11	<b>1.E-06</b>	0.001
Waste Concentration/Inhalation Rate	0.01	4.E-09	2.E-08	0.0001	1.E-11	6.E-07	0.0003
Distance to Receptor/Inhalation Rate	0.01	6.E-09	2.E-08	0.0002	2.E-11	6.E-07	0.0003

**Table H.2-4b. Risk and Sensitivity Analysis Results for Inhalation Exposure  
(EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloro ethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Hexachloro benzene	Tetrachloro ethylene
<b>Central Tendency</b>	4E-11	7E-12	8E-14	<0.0001	<0.0001	5E-14	<0.0001	4E-11	<0.0001	1E-09	4E-10	6E-14
<b>Single High End Parameter</b>												
Exposure Duration	2E-10	3E-11	4E-13	<0.0001	<0.0001	2E-13	<0.0001	2E-10	<0.0001	6E-09	2E-09	3E-13
Waste Concentration	1E-10	1E-11	2E-13	<0.0001	<0.0001	5E-14	<0.0001	1E-10	<0.0001	2E-09	4E-10	1E-13
Distance to Receptor	9E-11	2E-11	2E-13	<0.0001	<0.0001	1E-13	<0.0001	9E-11	<0.0001	3E-09	1E-09	1E-13
Inhalation Rate	5E-11	1E-11	1E-13	<0.0001	<0.0001	7E-14	<0.0001	5E-11	<0.0001	2E-09	6E-10	8E-14
<b>Double High End Parameters</b>												
Exposure Duration/Waste Concentration	7E-10	6E-11	9E-13	<0.0001	<0.0001	3E-13	<0.0001	7E-10	<0.0001	9E-09	2E-09	6E-13
Exposure Duration/Distance to Receptor	4E-10	8E-11	1E-12	<0.0001	<0.0001	6E-13	<0.0001	4E-10	<0.0001	1E-08	5E-09	7E-13
Exposure Duration/Inhalation Rate	3E-10	5E-11	6E-13	<0.0001	<0.0001	3E-13	<0.0001	3E-10	<0.0001	8E-09	3E-09	4E-13
Waste Concentration/Distance to Receptor	3E-10	3E-11	4E-13	<0.0001	<0.0001	1E-13	<0.0001	4E-10	<0.0001	5E-09	1E-09	3E-13
Waste Concentration/Inhalation Rate	2E-10	2E-11	3E-13	<0.0001	<0.0001	8E-14	<0.0001	2E-10	<0.0001	3E-09	6E-10	2E-13
Distance to Receptor/Inhalation Rate	1E-10	3E-11	3E-13	<0.0001	<0.0001	2E-13	<0.0001	1E-10	<0.0001	4E-09	2E-09	2E-13

**Table H.2-4b. Risk and Sensitivity Analysis Results for Inhalation Exposure  
(EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5, 7,8,9-	HxCDD 1,2,3,7,8, 9-	HpCDD 1,2,3,4,6, 7,8,-	OCDF 1,2,3,4,6, 7,8,9-	HxCDD 1,2,3,4,7, 8-	TCDF 2,3,7,8-	HpCDF1, 2,3,4,7,8, 9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7, 8-	HxCDD 1,2,3,6,7, 8-	HxCDF 2,3,4,6,7, 8-	HpCDF1, 2,3,4,6,7, 8-	HxCDF 1,2,3,4,7, 8-	HxCDF 1,2,3,7,8, 9-	TEQ
<b>Central Tendency</b>	NA	3.E-11	7.E-11	1.E-10	2.E-10	7.E-11	3.E-11	6.E-10	8.E-10	7.E-11	9.E-10	1.E-10	9.E-10	3.E-09	2.E-09	5.E-10	9.E-09
<b>Single High End Parameter</b>																	
Exposure Duration	NA	1.E-10	3.E-10	5.E-10	9.E-10	3.E-10	9.E-11	2.E-09	3.E-09	3.E-10	4.E-09	4.E-10	4.E-09	1.E-08	6.E-09	2.E-09	4.E-08
Waste Concentration	1.E-08	8.E-11	8.E-10	4.E-10	4.E-09	NA	3.E-09	2.E-08	9.E-09	NA	NA	1.E-09	8.E-09	3.E-08	2.E-08	NA	1.E-07
Distance to Receptor	NA	7.E-11	2.E-10	3.E-10	5.E-10	2.E-10	6.E-11	1.E-09	2.E-09	2.E-10	2.E-09	3.E-10	2.E-09	7.E-09	4.E-09	1.E-09	2.E-08
Inhalation Rate	NA	4.E-11	1.E-10	2.E-10	3.E-10	1.E-10	4.E-11	8.E-10	1.E-09	1.E-10	1.E-09	2.E-10	1.E-09	4.E-09	2.E-09	7.E-10	1.E-08
<b>Double High End Parameters</b>																	
Exposure Duration/Waste Concentration	4.E-08	4.E-10	3.E-09	2.E-09	2.E-08	NA	1.E-08	8.E-08	4.E-08	NA	NA	5.E-09	3.E-08	1.E-07	9.E-08	NA	4.E-07
Exposure Duration/Distance to Receptor	NA	3.E-10	8.E-10	1.E-09	2.E-09	8.E-10	2.E-10	6.E-09	8.E-09	7.E-10	9.E-09	1.E-09	1.E-08	3.E-08	2.E-08	5.E-09	9.E-08
Exposure Duration/Inhalation Rate	NA	2.E-10	5.E-10	7.E-10	1.E-09	5.E-10	1.E-10	3.E-09	5.E-09	4.E-10	6.E-09	6.E-10	6.E-09	2.E-08	9.E-09	3.E-09	5.E-08
Waste Concentration/Distance to Receptor	3.E-08	2.E-10	2.E-09	9.E-10	9.E-09	NA	8.E-09	5.E-08	2.E-08	NA	NA	3.E-09	2.E-08	7.E-08	5.E-08	NA	3.E-07
Waste Concentration/Inhalation Rate	1.E-08	1.E-10	1.E-09	5.E-10	5.E-09	NA	5.E-09	3.E-08	1.E-08	NA	NA	2.E-09	1.E-08	4.E-08	3.E-08	NA	2.E-07
Distance to Receptor/Inhalation Rate	NA	1.E-10	3.E-10	4.E-10	7.E-10	3.E-10	9.E-11	2.E-09	3.E-09	2.E-10	3.E-09	4.E-10	3.E-09	1.E-08	6.E-09	2.E-09	3.E-08

**Table H.2-4b. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Farmer**

6/25/99

High End Parameter(s)	Manganese	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Zinc
<b>Central Tendency</b>	0.003	2.E-09	5.E-09	<0.0001	5.E-12	2.E-07	0.0001
<b>Single High End Parameter</b>							
Exposure Duration	0.003	8.E-09	2.E-08	<0.0001	2.E-11	8.E-07	0.0001
Waste Concentration	0.01	3.E-09	1.E-08	0.0001	9.E-12	5.E-07	0.0003
Distance to Receptor	0.01	4.E-09	1.E-08	0.0002	1.E-11	4.E-07	0.0003
Inhalation Rate	0.003	2.E-09	7.E-09	<0.0001	7.E-12	2.E-07	0.0001
<b>Double High End Parameters</b>							
Exposure Duration/Waste Concentration	0.01	1.E-08	6.E-08	0.0001	4.E-11	<b>2.E-06</b>	0.0003
Exposure Duration/Distance to Receptor	0.01	2.E-08	6.E-08	0.0002	6.E-11	<b>2.E-06</b>	0.0003
Exposure Duration/Inhalation Rate	0.003	1.E-08	3.E-08	<0.0001	3.E-11	<b>1.E-06</b>	0.0001
Waste Concentration/Distance to Receptor	0.02	8.E-09	3.E-08	0.0003	2.E-11	<b>1.E-06</b>	0.001
Waste Concentration/Inhalation Rate	0.01	4.E-09	2.E-08	0.0001	1.E-11	7.E-07	0.0003
Distance to Receptor/Inhalation Rate	0.01	6.E-09	2.E-08	0.0002	2.E-11	6.E-07	0.0003

**Table H.2-4c. Risk and Sensitivity Analysis Results for Inhalation Exposure  
(EDC/VCM LTU, Non-Groundwater Deterministic), Child of Resident and Child of Farmer**

6/26/99

High End Parameter(s)	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloro ethylene	Allyl chloride	Dichloro ethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Hexachloro benzene	Tetrachloro ethylene
<b>Central Tendency</b>	4E-11	7E-12	8E-14	<0.0001	<0.0001	5E-14	<0.0001	4E-11	<0.0001	1E-09	4E-10	6E-14
<b>Single High End Parameter</b>												
Exposure Duration	7E-11	1E-11	2E-13	<0.0001	<0.0001	1E-13	<0.0001	8E-11	<0.0001	2E-09	9E-10	1E-13
Waste Concentration	1E-10	1E-11	2E-13	<0.0001	<0.0001	5E-14	<0.0001	1E-10	<0.0001	2E-09	4E-10	1E-13
Distance to Receptor	9E-11	2E-11	2E-13	<0.0001	<0.0001	1E-13	<0.0001	9E-11	<0.0001	3E-09	1E-09	1E-13
Inhalation Rate	6E-11	1E-11	1E-13	<0.0001	<0.0001	9E-14	<0.0001	7E-11	<0.0001	2E-09	8E-10	1E-13
<b>Double High End Parameters</b>												
Exposure Duration/Waste Concentration	3E-10	3E-11	4E-13	<0.0001	<0.0001	1E-13	<0.0001	3E-10	<0.0001	4E-09	9E-10	2E-13
Exposure Duration/Distance to Receptor	2E-10	4E-11	4E-13	<0.0001	<0.0001	3E-13	<0.0001	2E-10	<0.0001	6E-09	2E-09	3E-13
Exposure Duration/Inhalation Rate	1E-10	3E-11	3E-13	<0.0001	<0.0001	2E-13	<0.0001	1E-10	<0.0001	4E-09	2E-09	2E-13
Waste Concentration/Distance to Receptor	3E-10	3E-11	4E-13	<0.0001	<0.0001	1E-13	<0.0001	4E-10	<0.0001	5E-09	1E-09	3E-13
Waste Concentration/Inhalation Rate	2E-10	2E-11	3E-13	<0.0001	<0.0001	9E-14	<0.0001	2E-10	<0.0001	3E-09	8E-10	2E-13
Distance to Receptor/Inhalation Rate	2E-10	3E-11	4E-13	<0.0001	<0.0001	2E-13	<0.0001	2E-10	<0.0001	5E-09	2E-09	2E-13

**Table H.2-4c. Risk and Sensitivity Analysis Results for Inhalation Exposure  
(EDC/VCM LTU, Non-Groundwater Deterministic), Child of Resident and Child of Farmer**

6/26/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5, 7,8,9-	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6,7, 8,-	OCDF 1,2,3,4,6,7, 8,9-	HxCDD 1,2,3,4,7,8-	TCDF 2,3,7,8-	HpCDF1, 2,3,4,7,8, 9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7, 8-	HxCDD 1,2,3,6,7, 8-	HxCDF 2,3,4,6,7,8-	HpCDF1, 2,3,4,6,7, 8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	NA	3.E-11	7.E-11	1.E-10	2.E-10	7.E-11	3.E-11	6.E-10	8.E-10	7.E-11	9.E-10	1.E-10	9.E-10	3.E-09	2.E-09	5.E-10	9.E-09
<b>Single High End Parameter</b>																	
Exposure Duration	NA	6.E-11	1.E-10	2.E-10	4.E-10	1.E-10	4.E-11	1.E-09	1.E-09	1.E-10	2.E-09	2.E-10	2.E-09	5.E-09	3.E-09	9.E-10	2.E-08
Waste Concentration	1.E-08	8.E-11	8.E-10	4.E-10	4.E-09	NA	3.E-09	2.E-08	9.E-09	NA	NA	1.E-09	8.E-09	3.E-08	2.E-08	NA	1.E-07
Distance to Receptor	NA	7.E-11	2.E-10	3.E-10	5.E-10	2.E-10	6.E-11	1.E-09	2.E-09	2.E-10	2.E-09	3.E-10	2.E-09	7.E-09	4.E-09	1.E-09	2.E-08
Inhalation Rate	NA	5.E-11	1.E-10	2.E-10	3.E-10	1.E-10	4.E-11	1.E-09	1.E-09	1.E-10	2.E-09	2.E-10	2.E-09	5.E-09	3.E-09	8.E-10	2.E-08
<b>Double High End Parameters</b>																	
Exposure Duration/Waste Concentration	2.E-08	2.E-10	2.E-09	7.E-10	7.E-09	NA	5.E-09	3.E-08	2.E-08	NA	NA	2.E-09	1.E-08	5.E-08	4.E-08	NA	2.E-07
Exposure Duration/Distance to Receptor	NA	2.E-10	3.E-10	5.E-10	1.E-09	3.E-10	1.E-10	3.E-09	4.E-09	3.E-10	4.E-09	5.E-10	4.E-09	1.E-08	7.E-09	2.E-09	4.E-08
Exposure Duration/Inhalation Rate	NA	1.E-10	2.E-10	4.E-10	7.E-10	2.E-10	7.E-11	2.E-09	3.E-09	2.E-10	3.E-09	3.E-10	3.E-09	9.E-09	5.E-09	2.E-09	3.E-08
Waste Concentration/Distance to Receptor	3.E-08	2.E-10	2.E-09	9.E-10	9.E-09	NA	8.E-09	5.E-08	2.E-08	NA	NA	3.E-09	2.E-08	7.E-08	5.E-08	NA	3.E-07
Waste Concentration/Inhalation Rate	2.E-08	1.E-10	1.E-09	6.E-10	6.E-09	NA	6.E-09	3.E-08	2.E-08	NA	NA	2.E-09	1.E-08	5.E-08	4.E-08	NA	2.E-07
Distance to Receptor/Inhalation Rate	NA	1.E-10	3.E-10	5.E-10	8.E-10	3.E-10	1.E-10	2.E-09	3.E-09	3.E-10	4.E-09	5.E-10	4.E-09	1.E-08	7.E-09	2.E-09	4.E-08

**Table H.2-4c. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM LTU, Non-Groundwater Deterministic), Child of Resident and Child of Farmer**

6/26/99

High End Parameter(s)	Manganese	Nickel	Arsenic	Barium	Cadmium	Chromium VI	Zinc
<b>Central Tendency</b>	0.003	2.E-09	5.E-09	<0.0001	5.E-12	2.E-07	0.0001
<b>Single High End Parameter</b>							
Exposure Duration	0.003	3.E-09	1.E-08	<0.0001	9.E-12	3.E-07	0.0001
Waste Concentration	0.01	3.E-09	1.E-08	0.0001	9.E-12	5.E-07	0.0003
Distance to Receptor	0.01	4.E-09	1.E-08	0.0002	1.E-11	4.E-07	0.0003
Inhalation Rate	0.003	3.E-09	8.E-09	<0.0001	8.E-12	3.E-07	0.0001
<b>Double High End Parameters</b>							
Exposure Duration/Waste Concentration	0.01	6.E-09	3.E-08	0.0001	2.E-11	<b>1.E-06</b>	0.0003
Exposure Duration/Distance to Receptor	0.01	9.E-09	3.E-08	0.0002	3.E-11	9.E-07	0.0003
Exposure Duration/Inhalation Rate	0.003	6.E-09	2.E-08	<0.0001	2.E-11	6.E-07	0.0001
Waste Concentration/Distance to Receptor	0.02	8.E-09	3.E-08	0.000	2.E-11	<b>1.E-06</b>	0.001
Waste Concentration/Inhalation Rate	0.01	5.E-09	2.E-08	0.0001	2.E-11	8.E-07	0.0003
Distance to Receptor/Inhalation Rate	0.01	7.E-09	2.E-08	0.0002	2.E-11	8.E-07	0.0003



Table H.2-5a. Risk Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Monte Carlo), Adult Resident

6/25/99

Percentiles	Arsenic	TCDD, 2,3,7,8	OCDD, 1,2,3,4,5,7,8,9	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7,8,9	HxCDD, 1,2,3,4,7,8	TCDF, 2,3,7,8	HpCDF, 1,2,3,4,7,8,9	PeCDF, 2,3,4,7,8	PeCDF, 1,2,3,7,8	HxCDF, 1,2,3,6,7,8	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8	HpCDF,1,2, 3,4,6,7,8	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
10%	2E-09	2E-11	3E-11	4E-12	2E-11	5E-11	3E-12	5E-12	1E-10	2E-09	3E-12	4E-12	4E-12	4E-10	2E-10	3E-09	4E-12	5E-09
20%	5E-09	4E-11	7E-11	7E-12	4E-11	1E-10	5E-12	1E-11	2E-10	3E-09	7E-12	7E-12	7E-12	9E-10	3E-10	4E-09	6E-12	9E-09
30%	1E-08	5E-11	1E-10	1E-11	8E-11	3E-10	7E-12	4E-11	4E-10	4E-09	1E-10	1E-11	1E-11	1E-09	4E-10	6E-09	1E-11	1E-08
40%	2E-08	7E-11	3E-10	2E-11	2E-10	8E-10	9E-12	9E-11	6E-10	6E-09	3E-10	2E-11	2E-11	2E-09	7E-10	8E-09	2E-11	2E-08
50%	3E-08	9E-11	7E-10	5E-11	5E-10	2E-09	1E-11	2E-10	1E-09	8E-09	4E-10	5E-11	6E-11	4E-09	2E-09	1E-08	5E-11	3E-08
60%	4E-08	1E-10	1E-09	4E-10	1E-09	8E-09	2E-11	5E-10	3E-09	1E-08	6E-10	9E-10	5E-10	6E-09	1E-08	1E-08	8E-10	6E-08
70%	6E-08	2E-10	3E-09	8E-10	3E-09	2E-08	3E-11	1E-09	7E-09	2E-08	9E-10	2E-09	1E-09	1E-08	3E-08	2E-08	2E-09	1E-07
80%	1E-07	1E-08	4E-09	3E-09	5E-09	1E-07	3E-10	5E-09	5E-08	3E-08	1E-09	4E-09	3E-09	3E-08	8E-08	6E-08	2E-09	4E-07
90%	2E-07	3E-08	8E-09	6E-09	9E-09	2E-07	9E-10	1E-08	1E-07	6E-08	2E-09	9E-09	8E-09	7E-08	2E-07	1E-07	4E-09	9E-07
95%	3E-07	5E-08	1E-08	1E-08	1E-08	4E-07	1E-09	2E-08	2E-07	1E-07	3E-09	1E-08	1E-08	1E-07	3E-07	2E-07	7E-09	2E-06
97.5%	4E-07	7E-08	2E-08	1E-08	2E-08	6E-07	2E-09	3E-08	3E-07	1E-07	3E-09	2E-08	2E-08	2E-07	5E-07	3E-07	9E-09	2E-06
100%	1E-06	2E-07	6E-08	5E-08	7E-08	2E-06	7E-09	9E-08	1E-06	5E-07	1E-08	7E-08	6E-08	5E-07	2E-06	1E-06	3E-08	7E-06

Table H.2-5b. Risk Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Monte Carlo), Gardener

6/25/99

Percentiles	Arsenic	TCDD, 2,3,7,8	OCDD, 1,2,3,4,5,7,8,9	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7,8,9	HxCDD, 1,2,3,4,7,8	TCDF, 2,3,7,8	HpCDF, 1,2,3,4,7,8,9	PeCDF, 2,3,4,7,8	PeCDF, 1,2,3,7,8	HxCDF, 1,2,3,6,7,8	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8	HpCDF,1,2,3,4, 6,7,8	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
10%	7E-09	4E-11	6E-11	7E-12	3E-11	6E-11	5E-12	1E-11	2E-10	4E-09	7E-12	6E-12	7E-12	7E-10	3E-10	4E-09	6E-12	9E-09
20%	2E-08	7E-11	1E-10	1E-11	6E-11	1E-10	8E-12	2E-11	4E-10	6E-09	2E-11	1E-11	1E-11	1E-09	5E-10	6E-09	1E-11	2E-08
30%	4E-08	1E-10	3E-10	2E-11	1E-10	4E-10	1E-11	6E-11	6E-10	9E-09	3E-10	1E-11	2E-11	2E-09	7E-10	9E-09	1E-11	2E-08
40%	7E-08	1E-10	6E-10	3E-11	2E-10	9E-10	1E-11	2E-10	1E-09	1E-08	6E-10	2E-11	3E-11	4E-09	1E-09	1E-08	2E-11	3E-08
50%	1E-07	2E-10	1E-09	1E-10	6E-10	3E-09	2E-11	3E-10	2E-09	2E-08	9E-10	7E-11	1E-10	6E-09	4E-09	2E-08	7E-11	5E-08
60%	2E-07	2E-10	3E-09	7E-10	2E-09	1E-08	3E-11	9E-10	5E-09	2E-08	1E-09	1E-09	9E-10	9E-09	2E-08	2E-08	1E-09	1E-07
70%	2E-07	4E-10	5E-09	2E-09	4E-09	3E-08	4E-11	2E-09	1E-08	4E-08	2E-09	3E-09	2E-09	2E-08	6E-08	4E-08	2E-09	2E-07
80%	4E-07	2E-08	9E-09	5E-09	6E-09	1E-07	5E-10	9E-09	9E-08	6E-08	3E-09	6E-09	6E-09	4E-08	2E-07	9E-08	4E-09	6E-07
90%	7E-07	6E-08	2E-08	1E-08	1E-08	3E-07	1E-09	2E-08	2E-07	1E-07	4E-09	1E-08	2E-08	1E-07	4E-07	2E-07	6E-09	2E-06
95%	1E-06	1E-07	2E-08	2E-08	2E-08	5E-07	2E-09	4E-08	4E-07	2E-07	6E-09	2E-08	3E-08	2E-07	6E-07	4E-07	1E-08	2E-06
97.5%	2E-06	1E-07	3E-08	3E-08	3E-08	7E-07	3E-09	5E-08	6E-07	3E-07	9E-09	3E-08	4E-08	2E-07	8E-07	5E-07	1E-08	3E-06
100%	9E-06	6E-07	2E-07	2E-07	8E-08	2E-06	2E-08	2E-07	4E-06	2E-06	4E-08	1E-07	3E-07	8E-07	6E-06	2E-06	5E-08	2E-05

**Table H.2-5c. Risk Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Monte Carlo), Farmer**

6/25/99

Percentiles	Arsenic	TCDD, 2,3,7,8	OCDD, 1,2,3,4,5,7,8,9	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7,8,9	HxCDD, 1,2,3,4,7,8	TCDF, 2,3,7,8	HpCDF, 1,2,3,4,7,8,9	PeCDF, 2,3,4,7,8	PeCDF, 1,2,3,7,8	HxCDF, 1,2,3,6,7,8	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8	HpCDF,1,2, 3,4,6,7,8	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
10%	4E-08	5E-09	1E-09	7E-10	4E-10	8E-10	4E-10	3E-10	1E-08	6E-07	3E-10	4E-10	7E-10	4E-08	6E-09	3E-07	4E-10	1E-06
20%	9E-08	9E-09	3E-09	2E-09	9E-10	2E-09	7E-10	9E-10	2E-08	1E-06	1E-09	8E-10	1E-09	9E-08	1E-08	6E-07	8E-10	2E-06
30%	2E-07	1E-08	7E-09	3E-09	2E-09	6E-09	1E-09	2E-09	4E-08	2E-06	9E-09	1E-09	3E-09	2E-07	2E-08	1E-06	1E-09	3E-06
40%	4E-07	2E-08	2E-08	6E-09	4E-09	2E-08	2E-09	6E-09	7E-08	3E-06	2E-08	2E-09	5E-09	3E-07	4E-08	1E-06	3E-09	5E-06
50%	6E-07	3E-08	4E-08	2E-08	1E-08	4E-08	3E-09	1E-08	1E-07	4E-06	4E-08	8E-09	2E-08	5E-07	1E-07	2E-06	9E-09	7E-06
60%	9E-07	5E-08	7E-08	9E-08	3E-08	2E-07	4E-09	3E-08	3E-07	6E-06	7E-08	9E-08	1E-07	8E-07	6E-07	3E-06	9E-08	1E-05
70%	1E-06	9E-08	1E-07	3E-07	6E-08	5E-07	7E-09	8E-08	1E-06	1E-05	1E-07	2E-07	3E-07	2E-06	2E-06	5E-06	2E-07	2E-05
80%	2E-06	3E-06	3E-07	7E-07	1E-07	2E-06	4E-08	3E-07	5E-06	2E-05	2E-07	5E-07	8E-07	3E-06	5E-06	1E-05	3E-07	5E-05
90%	4E-06	1E-05	6E-07	2E-06	2E-07	5E-06	2E-07	9E-07	2E-05	4E-05	3E-07	1E-06	2E-06	9E-06	1E-05	3E-05	7E-07	1E-04
95%	6E-06	2E-05	9E-07	4E-06	4E-07	1E-05	3E-07	2E-06	3E-05	7E-05	5E-07	2E-06	5E-06	2E-05	2E-05	5E-05	1E-06	2E-04
97.5%	8E-06	3E-05	1E-06	6E-06	6E-07	1E-05	5E-07	3E-06	5E-05	1E-04	7E-07	3E-06	7E-06	2E-05	4E-05	8E-05	2E-06	4E-04
100%	2E-05	2E-04	9E-06	4E-05	3E-06	8E-05	3E-06	1E-05	4E-04	7E-04	3E-06	2E-05	5E-05	2E-04	2E-04	5E-04	8E-06	2E-03

Table H.2-5d. Risk Results for Ingestion Exposure (EDC/VCM LTU, Non-Groundwater Monte Carlo), Fisher

6/25/99

Percentiles	TCDD, 2,3,7,8-	OCDD, 1,2,3,4,5,7,8,9-	1,2,3,7,8,9- HxCDD	1,2,3,4,6,7,8- HpCDD	OCDF	1,2,3,4,7,8- HxCDD	1,2,3,7,8- PeCDD	2,3,7,8- TCDF	1,2,3,4,7,8,9- HpCDF	2,3,4,7,8- PeCDF	1,2,3,7,8- PeCDF	1,2,3,6,7,8- HxCDF	1,2,3,6,7,8- HxCDD	2,3,4,6,7,8- HxCDF	1,2,3,4,6,7,8- HpCDF	1,2,3,4,7,8- HxCDF	1,2,3,7,8,9- HxCDF	TEQ
10%	8E-11	2E-13	8E-12	6E-12	3E-13	5E-12	4E-11	3E-11	3E-11	7E-09	2E-11	8E-12	8E-12	9E-10	4E-11	4E-09	7E-12	1E-08
20%	2E-10	6E-13	2E-11	2E-11	1E-12	1E-11	8E-11	1E-10	8E-11	2E-08	1E-10	2E-11	2E-11	2E-09	1E-10	9E-09	2E-11	3E-08
30%	4E-10	1E-12	5E-11	4E-11	3E-12	2E-11	1E-10	3E-10	2E-10	3E-08	5E-10	5E-11	5E-11	5E-09	2E-10	2E-08	5E-11	5E-08
40%	7E-10	3E-12	1E-10	1E-10	8E-12	4E-11	2E-10	7E-10	4E-10	5E-08	1E-09	1E-10	1E-10	9E-09	6E-10	3E-08	1E-10	9E-08
50%	1E-09	6E-12	3E-10	2E-10	2E-11	7E-11	4E-10	2E-09	7E-10	8E-08	3E-09	5E-10	4E-10	2E-08	2E-09	5E-08	5E-10	2E-07
60%	2E-09	1E-11	1E-09	6E-10	8E-11	1E-10	5E-10	4E-09	2E-09	1E-07	5E-09	2E-09	1E-09	3E-08	5E-09	9E-08	2E-09	3E-07
70%	7E-09	3E-11	3E-09	1E-09	2E-10	3E-10	9E-10	1E-08	5E-09	2E-07	9E-09	7E-09	4E-09	6E-08	1E-08	2E-07	5E-09	5E-07
80%	5E-08	6E-11	1E-08	3E-09	8E-10	1E-09	2E-09	4E-08	2E-08	5E-07	2E-08	2E-08	1E-08	1E-07	4E-08	3E-07	1E-08	1E-06
90%	3E-07	2E-10	4E-08	9E-09	3E-09	4E-09	3E-09	1E-07	8E-08	1E-06	4E-08	6E-08	5E-08	4E-07	2E-07	9E-07	3E-08	3E-06
95%	9E-07	3E-10	9E-08	2E-08	9E-09	1E-08	6E-09	4E-07	2E-07	2E-06	9E-08	1E-07	1E-07	1E-06	4E-07	2E-06	8E-08	8E-06
97.5%	2E-06	7E-10	2E-07	4E-08	2E-08	3E-08	1E-08	8E-07	5E-07	5E-06	2E-07	3E-07	3E-07	2E-06	8E-07	4E-06	1E-07	2E-05
100%	5E-05	1E-08	4E-06	8E-07	4E-07	1E-06	1E-07	2E-05	1E-05	1E-04	3E-06	9E-06	6E-06	5E-05	2E-05	1E-04	4E-06	4E-04

**Table H.2-5e. Risk Results for Ingestion Exposure  
(EDC/VCM LTU, Non-Groundwater Monte Carlo), Child of Resident**

6/25/99

Percentiles	Arsenic			Dioxin TEQ		
	Age 1-5	Age 6-11	Age 12-18	Age 1-5	Age 6-11	Age 12-18
10%	4E-09	3E-09	2E-09	1E-08	1E-08	7E-09
20%	9E-09	5E-09	3E-09	2E-08	2E-08	1E-08
30%	2E-08	2E-08	9E-09	4E-08	3E-08	2E-08
40%	3E-08	3E-08	2E-08	6E-08	4E-08	2E-08
50%	6E-08	4E-08	3E-08	1E-07	5E-08	3E-08
60%	9E-08	5E-08	3E-08	2E-07	8E-08	5E-08
70%	1E-07	7E-08	5E-08	3E-07	1E-07	9E-08
80%	2E-07	1E-07	7E-08	8E-07	6E-07	3E-07
90%	5E-07	2E-07	1E-07	2E-06	1E-06	8E-07
95%	8E-07	3E-07	2E-07	4E-06	2E-06	1E-06
97.5%	1E-06	3E-07	2E-07	6E-06	2E-06	1E-06
100%	2E-05	9E-07	6E-07	1E-04	6E-06	4E-06

**Table H.2-5f. Risk Results for Ingestion Exposure  
(EDC/VCM LTU, Non-Groundwater Monte Carlo), Child of Farmer**

6/26/99

Percentiles	Arsenic			Dioxin TEQ		
	Age 1-5	Age 6-11	Age 12-18	Age 1-5	Age 6-11	Age 12-18
10%	4E-08	3E-08	2E-08	2E-06	1E-06	7E-07
20%	7E-08	5E-08	4E-08	3E-06	2E-06	1E-06
30%	2E-07	1E-07	9E-08	4E-06	3E-06	2E-06
40%	4E-07	3E-07	2E-07	6E-06	5E-06	4E-06
50%	6E-07	4E-07	3E-07	9E-06	7E-06	5E-06
60%	8E-07	6E-07	5E-07	1E-05	1E-05	8E-06
70%	1E-06	8E-07	7E-07	2E-05	2E-05	1E-05
80%	2E-06	1E-06	1E-06	4E-05	3E-05	3E-05
90%	3E-06	2E-06	2E-06	1E-04	9E-05	7E-05
95%	4E-06	3E-06	3E-06	2E-04	1E-04	1E-04
97.5%	6E-06	5E-06	4E-06	3E-04	2E-04	2E-04
100%	2E-05	2E-05	1E-05	1E-03	1E-03	1E-03

Table H.2-6a. Risk Results for Inhalation Exposure (EDC/VCM LTU, Non-Groundwater Monte Carlo), Adult Resident, Gardener, and Fisher

6/25/99

Percentiles	Chromium VI	TCDD, 2,3,7,8	OCDD, 1,2,3,4,5,7,8,9	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7,8,9	HxCDD, 1,2,3,4,7,8	TCDF, 2,3,7,8	HpCDF, 1,2,3,4,7,8,9	PeCDF, 2,3,4,7,8	PeCDF, 1,2,3,7,8	HxCDF, 1,2,3,6,7,8	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8	HpCDF,1,2,3,4, 6,7,8	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
10%	9.5E-09	5.9E-12	3.3E-13	4.0E-13	8.0E-13	6.9E-13	1.8E-13	1.4E-12	1.4E-11	2.3E-10	5.5E-13	3.1E-13	4.0E-13	4.7E-11	1.7E-11	2.8E-10	3.7E-13	6.0E-10
20%	1.9E-08	1.1E-11	8.5E-13	8.7E-13	1.9E-12	1.9E-12	3.4E-13	4.1E-12	2.9E-11	4.3E-10	1.9E-12	6.7E-13	8.7E-13	1.0E-10	3.7E-11	5.3E-10	8.2E-13	1.2E-09
30%	3.3E-08	1.8E-11	1.9E-12	1.6E-12	4.0E-12	4.8E-12	5.5E-13	1.1E-11	5.5E-11	6.9E-10	1.5E-11	1.3E-12	1.6E-12	1.9E-10	6.9E-11	8.6E-10	1.5E-12	1.9E-09
40%	5.1E-08	2.7E-11	4.2E-12	3.1E-12	8.6E-12	1.4E-11	8.5E-13	2.7E-11	9.9E-11	1.0E-09	4.0E-11	2.4E-12	3.1E-12	3.3E-10	1.3E-10	1.3E-09	2.9E-12	3.0E-09
50%	8.0E-08	4.1E-11	9.1E-12	8.5E-12	2.2E-11	4.1E-11	1.3E-12	6.2E-11	1.9E-10	1.5E-09	7.1E-11	7.5E-12	9.6E-12	5.8E-10	3.5E-10	2.0E-09	9.2E-12	4.9E-09
60%	1.3E-07	6.6E-11	1.8E-11	4.9E-11	5.9E-11	1.4E-10	2.0E-12	1.4E-10	4.3E-10	2.2E-09	1.1E-10	7.7E-11	6.8E-11	1.0E-09	1.9E-09	3.0E-09	8.6E-11	9.3E-09
70%	2.1E-07	1.2E-10	3.5E-11	1.4E-10	1.3E-10	4.2E-10	3.6E-12	3.9E-10	1.3E-09	3.4E-09	1.8E-10	2.0E-10	1.9E-10	1.8E-09	5.1E-09	4.8E-09	2.0E-10	1.8E-08
80%	3.8E-07	3.5E-09	6.8E-11	3.5E-10	2.6E-10	1.4E-09	2.1E-11	1.3E-09	6.2E-09	5.8E-09	2.8E-10	4.6E-10	4.8E-10	3.8E-09	1.3E-08	9.2E-09	3.8E-10	4.6E-08
90%	8.2E-07	1.4E-08	1.4E-10	1.1E-09	5.5E-10	5.0E-09	8.9E-11	4.4E-09	2.4E-08	1.3E-08	5.0E-10	1.1E-09	1.4E-09	1.1E-08	3.7E-08	2.6E-08	7.9E-10	1.4E-07
95%	1.4E-06	2.5E-08	2.3E-10	2.0E-09	9.2E-10	9.6E-09	1.7E-10	8.3E-09	4.5E-08	2.3E-08	7.5E-10	2.1E-09	2.7E-09	2.0E-08	6.9E-08	5.0E-08	1.3E-09	2.6E-07
97.5%	2.1E-06	3.7E-08	3.3E-10	2.9E-09	1.3E-09	1.4E-08	2.7E-10	1.2E-08	6.5E-08	3.3E-08	1.0E-09	3.2E-09	3.9E-09	2.9E-08	1.0E-07	7.2E-08	1.9E-09	3.8E-07
100%	8.7E-06	1.7E-07	1.5E-09	1.4E-08	6.1E-09	6.4E-08	1.8E-09	5.7E-08	3.1E-07	1.6E-07	4.0E-09	2.2E-08	1.9E-08	1.4E-07	4.7E-07	3.4E-07	1.3E-08	1.8E-06

Table H.2-6b. Risk Results for Inhalation Exposure (EDC/VCM LTU, Non-Groundwater Monte Carlo), Farmer

6/25/99

Percentiles	Chromium VI	TCDD, 2,3,7,8	OCDD, 1,2,3,4,5,7,8,9	HxCDD, 1,2,3,7,8,9	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7,8,9	HxCDD, 1,2,3,4,7,8	TCDF, 2,3,7,8	HpCDF, 1,2,3,4,7,8,9	PeCDF, 2,3,4,7,8	PeCDF, 1,2,3,7,8	HxCDF, 1,2,3,6,7,8	HxCDD, 1,2,3,6,7,8	HxCDF, 2,3,4,6,7,8	HpCDF,1,2,3,4, ,6,7,8	HxCDF, 1,2,3,4,7,8	HxCDF, 1,2,3,7,8,9	TEQ
10%	1.1E-08	7.0E-12	4.0E-13	5.0E-13	9.8E-13	8.5E-13	2.2E-13	1.9E-12	1.6E-11	2.7E-10	6.7E-13	3.9E-13	5.0E-13	5.7E-11	2.1E-11	3.3E-10	4.7E-13	7.1E-10
20%	2.3E-08	1.4E-11	1.0E-12	1.1E-12	2.4E-12	2.4E-12	4.2E-13	5.3E-12	3.7E-11	5.3E-10	2.4E-12	8.5E-13	1.1E-12	1.3E-10	4.7E-11	6.5E-10	1.0E-12	1.4E-09
30%	3.9E-08	2.3E-11	2.3E-12	2.1E-12	5.0E-12	6.0E-12	6.9E-13	1.3E-11	7.0E-11	8.5E-10	1.8E-11	1.7E-12	2.1E-12	2.4E-10	8.8E-11	1.1E-09	2.0E-12	2.4E-09
40%	6.5E-08	3.5E-11	5.2E-12	4.0E-12	1.1E-11	1.8E-11	1.1E-12	3.2E-11	1.2E-10	1.3E-09	4.9E-11	3.1E-12	4.0E-12	4.1E-10	1.7E-10	1.6E-09	3.8E-12	3.8E-09
50%	1.0E-07	5.2E-11	1.1E-11	1.0E-11	2.7E-11	5.1E-11	1.6E-12	7.8E-11	2.3E-10	1.9E-09	8.8E-11	8.4E-12	1.1E-11	7.2E-10	4.2E-10	2.4E-09	1.0E-11	6.1E-09
60%	1.6E-07	8.4E-11	2.3E-11	6.1E-11	7.2E-11	1.7E-10	2.5E-12	1.8E-10	5.3E-10	2.9E-09	1.4E-10	9.6E-11	8.5E-11	1.2E-09	2.3E-09	3.7E-09	1.0E-10	1.2E-08
70%	2.6E-07	1.5E-10	4.2E-11	1.7E-10	1.6E-10	5.2E-10	4.5E-12	4.6E-10	1.6E-09	4.3E-09	2.3E-10	2.4E-10	2.3E-10	2.3E-09	6.3E-09	6.0E-09	2.4E-10	2.3E-08
80%	4.7E-07	4.3E-09	8.5E-11	4.3E-10	3.3E-10	1.7E-09	2.6E-11	1.5E-09	7.6E-09	7.2E-09	3.5E-10	5.7E-10	5.9E-10	4.7E-09	1.6E-08	1.1E-08	4.8E-10	5.6E-08
90%	1.0E-06	1.7E-08	1.8E-10	1.4E-09	7.0E-10	6.4E-09	1.1E-10	5.7E-09	3.0E-08	1.6E-08	6.3E-10	1.4E-09	1.8E-09	1.4E-08	4.7E-08	3.4E-08	9.7E-10	1.8E-07
95%	1.8E-06	3.2E-08	2.9E-10	2.6E-09	1.2E-09	1.2E-08	2.2E-10	1.1E-08	5.7E-08	2.9E-08	9.3E-10	2.7E-09	3.4E-09	2.5E-08	8.8E-08	6.3E-08	1.6E-09	3.3E-07
97.5%	2.8E-06	4.9E-08	4.4E-10	4.0E-09	1.8E-09	1.9E-08	3.4E-10	1.6E-08	8.8E-08	4.5E-08	1.3E-09	4.1E-09	5.3E-09	3.9E-08	1.3E-07	9.7E-08	2.4E-09	5.1E-07
100%	1.1E-05	2.0E-07	1.7E-09	1.6E-08	7.3E-09	7.6E-08	1.2E-09	6.7E-08	3.6E-07	1.9E-07	3.8E-09	1.5E-08	2.2E-08	1.6E-07	5.6E-07	4.0E-07	8.5E-09	2.1E-06



## **Appendix H.2.3**

### **Groundwater Pathway Risk Results**

Table H.2-7. Groundwater Pathway Sensitivity Analysis Results (EDC/VCM LTU)

6/25/99

**Arsenic Sensitivity Analysis**

Parameter at High End	X Well (m)	Y Well (m)	Clzero (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
Leachate Conc.	430	292.54	<b>1.34E-02</b>	Baton Rouge	4.99E-04	1,524
X Well	<b>102</b>	272.14	5.05E-03	Baton Rouge	3.97E-04	1,252
Y Well	430	<b>0</b>	5.05E-03	Baton Rouge	1.89E-04	1,524
Base Case (all at CT)	430	292.54	5.05E-03	Baton Rouge	1.88E-04	1,524

**Bis(2-chloroethyl)ether (parent) Sensitivity Analysis**

Parameter at High End	X Well (m)	Y Well (m)	Clzero (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	272.14	1.48E-04	Baton Rouge	1.20E-05	28
Leachate Conc.	430	292.54	<b>2.43E-04</b>	Baton Rouge	7.36E-06	39
Y Well	430	<b>0</b>	1.48E-04	Baton Rouge	4.46E-06	41
Base Case (all at CT)	430	292.54	1.48E-04	Baton Rouge	4.45E-06	41

**2-(2-Chloroethoxy)ethanol (1. break down product) Sensitivity Analysis**

Parameter at High End	X Well (m)	Y Well (m)	Clzero* (mg/L)	Site*	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	272.14	1.48E-04	Baton Rouge	2.40E-05	N/A
Leachate Conc.	430	292.54	<b>2.43E-04</b>	Baton Rouge	1.78E-05	N/A
Y Well	430	<b>0</b>	1.48E-04	Baton Rouge	1.08E-05	N/A
Base Case (all at CT)	430	292.54	1.48E-04	Baton Rouge	1.08E-05	N/A

\*source data from parent constituent

NA = Arrival times for breakdown products are not well defined.

**1,4-dioxane (2. break down product) Sensitivity Analysis**

Parameter at High End	X Well (m)	Y Well (m)	Clzero* (mg/L)	Site*	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	272.14	1.48E-04	Baton Rouge	4.73E-05	N/A
Leachate Conc.	430	292.54	<b>2.43E-04</b>	Baton Rouge	4.67E-05	N/A
Y Well	430	<b>0</b>	1.48E-04	Baton Rouge	2.86E-05	N/A
Base Case (all at CT)	430	292.54	1.48E-04	Baton Rouge	2.84E-05	N/A

\*source data from parent constituent

NA = Arrival times for breakdown products are not well defined.

**Table H.2-8. Contaminant Groundwater Concentrations, Peak Time of Travel, and Mass Flux from Groundwater to Surface Water (Groundwater, EDC/VCMLTU)**

6/25/99

Chemical of concern	Scenario	Avg. Conc. (mg/L)	Peak Time (year)	Mass Flux (mg/y)
Arsenic	Central Tendency	1.88E-04	1,524	1.19E+04
	Leachate Concentration , Exposure Duration	5.00E-04	1,524	3.18E+04
Bis(2-chloroethyl)ether	Central Tendency	4.45E-06	41	2.82E+02
	X-well, Exposure Duration	1.16E-05	28	7.04E+02
2-(2-chloroethoxy)ethanol	Central Tendency	1.08E-05	N/A	6.86E+02
	X-well, Exposure Duration	2.39E-05	N/A	1.46E+03
1,4-Dioxane	Central Tendency	2.84E-05	N/A	1.80E+03
	X-well, Exposure Duration	4.73E-05	N/A	2.88E+03

**Assumptions:**

1. Based on wet-weight waste concentrations
2. Based on 9-yr avg leachate concentration
3. Aquifer temp = 22.5C
4. Infil = 0.5893 m/yr

Table H.2-9a. Deterministic Groundwater Risk Results (EDC/VCM LTU), Adult Resident and Gardener

6/25/99

Constituent	CAS No.	Scenario	Groundwater Concentration (mg/L)	Total Inhalation Risk from Household Uses of Groundwater	Dermal Hazard Quotient or Risk	Risk or HQ from Drinking Water Ingestion	Summed Risk or HQ from Non-Inhalation Pathways
Bis(2-chloroethyl)ether	111-44-4	Central Tendency	4.45E-06	1E-09	4E-10	1E-08	1E-08
		X-well, Exposure Duration	1.16E-05	9E-09	3E-09	1E-07	1E-07
1,4-Dioxane	123-91-1	Central Tendency	2.84E-05	NA	2E-12	8E-10	8E-10
		X-well, Exposure Duration	4.73E-05	NA	1E-11	4E-09	4E-09
Arsenic	7440-38-2	Central Tendency	1.88E-04	NA	8E-09	7E-07	7E-07
		Leachate Conc., Exposure Duration	5.00E-04	NA	7E-08	<b>6E-06</b>	<b>6E-06</b>

Table H.2-9b. Deterministic Groundwater Risk Results (EDC/VCM LTU), Farmer

6/25/99

Constituent	CAS No.	Scenario	Groundwater Concentration (mg/L)	Total Inhalation Risk from Household Uses of Groundwater	Dermal Hazard Quotient or Risk	Risk or HQ from Drinking Water Ingestion	Summed Risk or HQ from Non-Inhalation Pathways
Bis(2-chloroethyl)ether	111-44-4	Central Tendency	4.45E-06	1E-09	4E-10	1E-08	1E-08
		X-well, Exposure Duration	1.16E-05	1E-08	5E-09	2E-07	2E-07
1,4-Dioxane	123-91-1	Central Tendency	2.84E-05	NA	3E-12	9E-10	9E-10
		X-well, Exposure Duration	4.73E-05	NA	2E-11	7E-09	7E-09
Arsenic	7440-38-2	Central Tendency	1.88E-04	NA	9E-09	8E-07	8E-07
		Leachate Conc., Exposure Duration	5.00E-04	NA	1E-07	<b>1E-05</b>	<b>1E-05</b>

Table H.2-9c. Deterministic Groundwater Risk Results (EDC/VCM LTU), Fisher

6/25/99

Constituent	CAS No.	Scenario	Groundwater Concentration (mg/L)	Total Inhalation Risk from Household Uses of	Dermal Hazard Quotient or Risk	Risk or HQ from Fish Ingestion	Risk or HQ from Drinking Water Ingestion	Summed Risk or HQ from Non-Inhalation Pathways
Bis(2-chloroethyl)ether	111-44-4	Central Tendency	4.45E-06	1E-09	4E-10	3E-13	1E-08	1E-08
		X-well, Exposure Duration	1.16E-05	9E-09	3E-09	3E-12	1E-07	1E-07
1,4-Dioxane	123-91-1	Central Tendency	2.84E-05	NA	2E-12	1E-15	8E-10	8E-10
		X-well, Exposure Duration	4.73E-05	NA	1E-11	5E-15	4E-09	4E-09
Arsenic	7440-38-2	Central Tendency	1.88E-04	NA	8E-09	7E-13	7E-07	7E-07
		Leachate Conc., Exposure Duration	5.00E-04	NA	7E-08	6E-12	<b>6E-06</b>	<b>6E-06</b>

Table H.2-9d. Deterministic Groundwater Risk Results (EDC/VCM LTU), Child of Resident and Child of Farmer

6/25/99

Constituent	CAS No.	Scenario	Groundwater Concentration (mg/L)	Risk or HQ from Drinking Water Ingestion
Bis(2-chloroethyl)ether	111-44-4	Central Tendency	4.45E-06	1E-08
		X-well, Exposure Duration	1.16E-05	2E-08
1,4-Dioxane	123-91-1	Central Tendency	2.84E-05	6E-10
		X-well, Exposure Duration	4.73E-05	1E-09
Arsenic	7440-38-2	Central Tendency	1.88E-04	6E-07
		Leachate Conc., Exposure Duration	5.00E-04	<b>3E-06</b>

**Table H.2-10a. Monte Carlo Groundwater Risk Results (EDC/VCM LTU), Adult Resident, Gardener, Farmer, and Fisher**

6/25/99

Percentiles	Drinking Water Ingestion AR, HG, Fisher	Drinking Water Ingestion Farmer
10%	1.77E-10	2.49E-10
20%	2.22E-09	2.91E-09
30%	9.81E-09	1.28E-08
40%	2.88E-08	3.56E-08
50%	6.91E-08	8.76E-08
60%	1.49E-07	1.90E-07
70%	2.99E-07	3.99E-07
80%	6.21E-07	8.10E-07
90%	1.48E-06	1.97E-06
95%	2.89E-06	3.65E-06
97.5%	4.63E-06	5.97E-06
100%	3.16E-05	4.60E-05

AR = Adult Resident  
 HG = Home Gardener



**Table H.2-10b. Monte Carlo Groundwater Risk Results  
(EDC/VCM LTU), Child of Resident and Child of Farmer**

6/25/99

Percentiles	Resident Child			Farm Child		
	Age 1-5	Age 6-11	Age 12-18	Age 1-5	Age 6-11	Age 12-18
10%	1.71E-10	1.48E-10	1.04E-10	3.1E-10	2.2E-10	1.6E-10
20%	2.30E-09	1.97E-09	1.39E-09	4.2E-09	2.8E-09	2.2E-09
30%	1.00E-08	8.37E-09	6.11E-09	1.8E-08	1.2E-08	9.3E-09
40%	2.78E-08	2.35E-08	1.69E-08	5.1E-08	3.5E-08	2.6E-08
50%	6.46E-08	5.43E-08	3.9E-08	1.2E-07	8.0E-08	6.1E-08
60%	1.42E-07	1.19E-07	8.44E-08	2.5E-07	1.7E-07	1.3E-07
70%	2.79E-07	2.34E-07	1.73E-07	5.0E-07	3.3E-07	2.6E-07
80%	5.56E-07	4.64E-07	3.54E-07	1.0E-06	6.8E-07	5.4E-07
90%	1.30E-06	1.05E-06	8.59E-07	2.2E-06	1.5E-06	1.3E-06
95%	2.40E-06	1.96E-06	1.61E-06	3.9E-06	2.7E-06	2.3E-06
97.5%	3.93E-06	3.13E-06	2.66E-06	5.9E-06	4.0E-06	3.5E-06
100%	4.73E-05	3.59E-05	3.62E-05	3.5E-05	2.5E-05	2.1E-05

## **Appendix H.3**

### **EDC/VCM Wastewater Sludge, Landfill Scenario**

### **Exposure Point Concentrations and Risk Results**

## **Appendix H.3.1**

### **Non-Groundwater Pathway Risk Results**

**Table H.3-1a. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Adult Resident  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachlorobenzene	Tetrachloroethylene
<b>Central Tendency</b>	<0.0001	<0.0001	7.E-22	7.E-22	5.E-23	<0.0001	<0.0001	1.E-23	7.E-24	1.E-20	<0.0001	2.E-19	2.E-21	1.E-18	3.E-22
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	2.E-21	2.E-21	2.E-22	<0.0001	<0.0001	5.E-23	2.E-23	4.E-20	<0.0001	8.E-19	8.E-21	3.E-18	1.E-21
Waste Concentration	<0.0001	<0.0001	3.E-21	2.E-21	1.E-22	<0.0001	<0.0001	1.E-23	8.E-24	4.E-20	<0.0001	4.E-19	7.E-21	1.E-18	8.E-22
Meteorological Location	<0.0001	<0.0001	1.E-21	1.E-21	1.E-22	<0.0001	<0.0001	3.E-23	1.E-23	2.E-20	<0.0001	5.E-19	3.E-21	2.E-18	7.E-22
Distance to Receptor	<0.0001	<0.0001	2.E-21	3.E-21	2.E-22	<0.0001	<0.0001	5.E-23	3.E-23	4.E-20	<0.0001	9.E-19	9.E-21	4.E-18	1.E-21
Waste Volume	<0.0001	<0.0001	2.E-21	2.E-21	2.E-22	<0.0001	<0.0001	5.E-23	2.E-23	4.E-20	<0.0001	8.E-19	8.E-21	3.E-18	1.E-21
<b>Double High End Parameters</b>															
Exposure Duration/Waste Concentration	<0.0001	<0.0001	8.E-21	5.E-21	4.E-22	<0.0001	<0.0001	5.E-23	3.E-23	1.E-19	<0.0001	1.E-18	2.E-20	3.E-18	3.E-21
Exposure Duration/Met. Location	<0.0001	<0.0001	4.E-21	5.E-21	3.E-22	<0.0001	<0.0001	1.E-22	5.E-23	7.E-20	<0.0001	2.E-18	1.E-20	7.E-18	2.E-21
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	8.E-21	9.E-21	6.E-22	<0.0001	<0.0001	2.E-22	9.E-23	1.E-19	<0.0001	3.E-18	3.E-20	1.E-17	4.E-21
Exposure Duration/Waste Volume	<0.0001	<0.0001	7.E-21	8.E-21	5.E-22	<0.0001	<0.0001	2.E-22	8.E-23	1.E-19	<0.0001	3.E-18	3.E-20	1.E-17	4.E-21
Waste Concentration/Met. Location	<0.0001	<0.0001	5.E-21	3.E-21	2.E-22	<0.0001	<0.0001	3.E-23	2.E-23	9.E-20	<0.0001	9.E-19	9.E-21	2.E-18	2.E-21
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	1.E-20	6.E-21	5.E-22	<0.0001	<0.0001	5.E-23	3.E-23	2.E-19	<0.0001	2.E-18	3.E-20	4.E-18	3.E-21
Waste Concentration/Waste Volume	<0.0001	<0.0001	9.E-21	5.E-21	4.E-22	<0.0001	<0.0001	5.E-23	3.E-23	1.E-19	<0.0001	1.E-18	2.E-20	3.E-18	3.E-21
Met. Location/Distance to Receptor	<0.0001	<0.0001	5.E-21	6.E-21	4.E-22	<0.0001	<0.0001	1.E-22	6.E-23	9.E-20	<0.0001	2.E-18	1.E-20	8.E-18	3.E-21
Met Location/Waste Volume	<0.0001	<0.0001	4.E-21	5.E-21	3.E-22	<0.0001	<0.0001	1.E-22	5.E-23	7.E-20	<0.0001	2.E-18	1.E-20	7.E-18	2.E-21
Distance to Receptor/Waste Volume	<0.0001	<0.0001	8.E-21	9.E-21	6.E-22	<0.0001	<0.0001	2.E-22	9.E-23	1.E-19	<0.0001	3.E-18	3.E-20	1.E-17	4.E-21

**Table H.3-1a. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Adult Resident  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5,7,8, 9-	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6, 7,8,-	OCDF 1,2,3,4,6, 7,8,9-	HxCDD 1,2,3,4,7,8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1,2,3 ,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2,3,4 ,6,7,8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	4.E-18	4.E-18	1.E-17	3.E-17	3.E-17	2.E-17	2.E-17	2.E-18	1.E-16	1.E-16	9.E-18	2.E-16	2.E-17	2.E-16	5.E-16	3.E-16	9.E-17	2.E-15
<b>Single High End Parameter</b>																		
Exposure Duration	1.E-17	1.E-17	4.E-17	9.E-17	1.E-16	6.E-17	5.E-17	7.E-18	3.E-16	4.E-16	3.E-17	6.E-16	6.E-17	6.E-16	2.E-15	8.E-16	3.E-16	5.E-15
Waste Concentration	1.E-15	3.E-17	3.E-16	2.E-16	1.E-15	9.E-17	1.E-15	6.E-16	7.E-15	3.E-15	2.E-18	2.E-15	4.E-16	3.E-15	1.E-14	8.E-15	8.E-16	4.E-14
Meteorological Location	5.E-18	1.E-18	7.E-18	8.E-18	1.E-17	6.E-18	8.E-18	2.E-18	5.E-17	7.E-17	6.E-18	8.E-17	9.E-18	8.E-17	3.E-16	1.E-16	4.E-17	8.E-16
Distance to Receptor	1.E-17	1.E-17	4.E-17	7.E-17	9.E-17	5.E-17	5.E-17	7.E-18	3.E-16	4.E-16	3.E-17	5.E-16	6.E-17	5.E-16	2.E-15	8.E-16	3.E-16	5.E-15
Waste Volume	1.E-17	1.E-17	4.E-17	9.E-17	1.E-16	5.E-17	5.E-17	7.E-18	3.E-16	4.E-16	3.E-17	6.E-16	6.E-17	6.E-16	2.E-15	8.E-16	3.E-16	5.E-15
<b>Double High End Parameters</b>																		
Exposure Duration/Waste Concentration	5.E-15	9.E-17	1.E-15	7.E-16	5.E-15	3.E-16	4.E-15	2.E-15	2.E-14	1.E-14	6.E-18	5.E-15	1.E-15	1.E-14	4.E-14	3.E-14	3.E-15	1.E-13
Exposure Duration/Met. Location	2.E-17	4.E-18	2.E-17	3.E-17	3.E-17	2.E-17	3.E-17	7.E-18	2.E-16	2.E-16	2.E-17	3.E-16	3.E-17	3.E-16	8.E-16	5.E-16	1.E-16	3.E-15
Exposure Duration/Distance to Receptor	5.E-17	3.E-17	1.E-16	2.E-16	3.E-16	2.E-16	2.E-16	2.E-17	1.E-15	1.E-15	1.E-16	2.E-15	2.E-16	2.E-15	5.E-15	3.E-15	9.E-16	2.E-14
Exposure Duration/Waste Volume	5.E-17	4.E-17	1.E-16	3.E-16	4.E-16	2.E-16	2.E-16	2.E-17	1.E-15	1.E-15	1.E-16	2.E-15	2.E-16	2.E-15	5.E-15	3.E-15	1.E-15	2.E-14
Waste Concentration/Met. Location	2.E-15	8.E-18	2.E-16	6.E-17	4.E-16	3.E-17	5.E-16	6.E-16	4.E-15	2.E-15	1.E-18	6.E-16	2.E-16	2.E-15	6.E-15	4.E-15	4.E-16	2.E-14
Waste Concentration/Distance to Receptor	5.E-15	7.E-17	1.E-15	6.E-16	4.E-15	3.E-16	3.E-15	2.E-15	2.E-14	1.E-14	5.E-18	4.E-15	1.E-15	1.E-14	3.E-14	2.E-14	2.E-15	1.E-13
Waste Concentration/Waste Volume	5.E-15	9.E-17	1.E-15	7.E-16	5.E-15	3.E-16	4.E-15	2.E-15	2.E-14	1.E-14	6.E-18	5.E-15	1.E-15	1.E-14	4.E-14	3.E-14	3.E-15	1.E-13
Met. Location/Distance to Receptor	2.E-17	3.E-18	2.E-17	2.E-17	3.E-17	2.E-17	2.E-17	6.E-18	1.E-16	2.E-16	2.E-17	2.E-16	3.E-17	2.E-16	7.E-16	4.E-16	1.E-16	2.E-15
Met Location/Waste Volume	2.E-17	4.E-18	2.E-17	3.E-17	3.E-17	2.E-17	3.E-17	7.E-18	2.E-16	2.E-16	2.E-17	2.E-16	3.E-17	3.E-16	8.E-16	5.E-16	1.E-16	3.E-15
Distance to Receptor/Waste Volume	5.E-17	3.E-17	1.E-16	2.E-16	3.E-16	2.E-16	2.E-16	2.E-17	1.E-15	1.E-15	1.E-16	2.E-15	2.E-16	2.E-15	5.E-15	3.E-15	9.E-16	2.E-14

**Table H.3-1b. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Gardener  
(Risk Results Based on Dry Weight Waste Concentrations)**

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachlorobenzene	Tetrachloroethylene
<b>Central Tendency</b>	<0.0001	<0.0001	2.E-19	2.E-19	2.E-20	<0.0001	<0.0001	3.E-21	3.E-21	4.E-18	<0.0001	1.E-16	1.E-15	7.E-18	6.E-20
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	6.E-19	8.E-19	7.E-20	<0.0001	<0.0001	9.E-21	9.E-21	1.E-17	<0.0001	3.E-16	4.E-15	2.E-17	2.E-19
Exposed Veg. Intake	<0.0001	<0.0001	4.E-19	6.E-19	5.E-20	<0.0001	<0.0001	5.E-21	6.E-21	9.E-18	<0.0001	2.E-16	2.E-15	1.E-17	1.E-19
Root Veg. Intake	<0.0001	<0.0001	2.E-19	3.E-19	2.E-20	<0.0001	<0.0001	3.E-21	3.E-21	4.E-18	<0.0001	1.E-16	1.E-15	7.E-18	6.E-20
Fruit Intake	<0.0001	<0.0001	5.E-19	7.E-19	5.E-20	<0.0001	<0.0001	8.E-21	7.E-21	1.E-17	<0.0001	3.E-16	4.E-15	2.E-17	2.E-19
Waste Concentration	<0.0001	<0.0001	7.E-19	5.E-19	5.E-20	<0.0001	<0.0001	3.E-21	3.E-21	2.E-17	<0.0001	2.E-16	4.E-15	7.E-18	1.E-19
Meteorological Location	<0.0001	<0.0001	3.E-19	4.E-19	4.E-20	<0.0001	<0.0001	4.E-21	4.E-21	7.E-18	<0.0001	2.E-16	1.E-15	9.E-18	8.E-20
Distance to Receptor	<0.0001	<0.0001	7.E-19	1.E-18	8.E-20	<0.0001	<0.0001	1.E-20	1.E-20	2.E-17	<0.0001	4.E-16	4.E-15	3.E-17	2.E-19
Waste Volume	<0.0001	<0.0001	6.E-19	8.E-19	7.E-20	<0.0001	<0.0001	9.E-21	9.E-21	1.E-17	<0.0001	3.E-16	4.E-15	2.E-17	2.E-19
<b>Double High End Parameters</b>															
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	1.E-18	2.E-18	2.E-19	<0.0001	<0.0001	2.E-20	2.E-20	3.E-17	<0.0001	8.E-16	6.E-15	4.E-17	4.E-19
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	9.E-21	9.E-21	1.E-17	<0.0001	4.E-16	4.E-15	2.E-17	2.E-19
Exposure Duration/Fruit Intake	<0.0001	<0.0001	2.E-18	2.E-18	2.E-19	<0.0001	<0.0001	3.E-20	2.E-20	3.E-17	<0.0001	8.E-16	1.E-14	7.E-17	6.E-19
Exposure Duration/Waste Concentration	<0.0001	<0.0001	2.E-18	2.E-18	2.E-19	<0.0001	<0.0001	9.E-21	1.E-20	5.E-17	<0.0001	6.E-16	1.E-14	2.E-17	5.E-19
Exposure Duration/Met. Location	<0.0001	<0.0001	9.E-19	1.E-18	1.E-19	<0.0001	<0.0001	1.E-20	1.E-20	2.E-17	<0.0001	6.E-16	4.E-15	3.E-17	3.E-19
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	1.E-14	9.E-17	8.E-19
Exposure Duration/Waste Volume	<0.0001	<0.0001	2.E-18	3.E-18	2.E-19	<0.0001	<0.0001	3.E-20	3.E-20	4.E-17	<0.0001	1.E-15	1.E-14	8.E-17	7.E-19
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	4.E-19	6.E-19	5.E-20	<0.0001	<0.0001	5.E-21	6.E-21	9.E-18	<0.0001	3.E-16	2.E-15	1.E-17	1.E-19
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	7.E-19	1.E-18	8.E-20	<0.0001	<0.0001	1.E-20	1.E-20	2.E-17	<0.0001	4.E-16	4.E-15	2.E-17	2.E-19
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	1.E-18	1.E-18	1.E-19	<0.0001	<0.0001	5.E-21	7.E-21	3.E-17	<0.0001	4.E-16	6.E-15	1.E-17	3.E-19
Exposed Veg. Intake/Met. Location	<0.0001	<0.0001	6.E-19	1.E-18	9.E-20	<0.0001	<0.0001	7.E-21	1.E-20	2.E-17	<0.0001	5.E-16	2.E-15	1.E-17	2.E-19
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	1.E-18	2.E-18	2.E-19	<0.0001	<0.0001	2.E-20	2.E-20	3.E-17	<0.0001	9.E-16	7.E-15	4.E-17	4.E-19
Exposed Veg. Intake/Waste Volume	<0.0001	<0.0001	1.E-18	2.E-18	2.E-19	<0.0001	<0.0001	2.E-20	2.E-20	3.E-17	<0.0001	8.E-16	6.E-15	4.E-17	4.E-19
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	5.E-19	7.E-19	5.E-20	<0.0001	<0.0001	8.E-21	7.E-21	1.E-17	<0.0001	3.E-16	4.E-15	2.E-17	2.E-19
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	7.E-19	6.E-19	6.E-20	<0.0001	<0.0001	3.E-21	3.E-21	2.E-17	<0.0001	2.E-16	4.E-15	7.E-18	1.E-19
Root Veg. Intake/Met. Location	<0.0001	<0.0001	3.E-19	4.E-19	4.E-20	<0.0001	<0.0001	4.E-21	5.E-21	7.E-18	<0.0001	2.E-16	1.E-15	1.E-17	9.E-20
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	7.E-19	1.E-18	8.E-20	<0.0001	<0.0001	1.E-20	1.E-20	2.E-17	<0.0001	4.E-16	4.E-15	3.E-17	2.E-19
Root Veg. Intake/Waste Volume	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	9.E-21	9.E-21	1.E-17	<0.0001	4.E-16	4.E-15	2.E-17	2.E-19
Fruit Intake/Waste Concentration	<0.0001	<0.0001	2.E-18	1.E-18	1.E-19	<0.0001	<0.0001	8.E-21	8.E-21	4.E-17	<0.0001	5.E-16	1.E-14	2.E-17	4.E-19
Fruit Intake/Met. Location	<0.0001	<0.0001	8.E-19	1.E-18	9.E-20	<0.0001	<0.0001	1.E-20	1.E-20	2.E-17	<0.0001	5.E-16	4.E-15	2.E-17	2.E-19
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	2.E-18	3.E-18	2.E-19	<0.0001	<0.0001	3.E-20	3.E-20	4.E-17	<0.0001	1.E-15	2.E-14	8.E-17	7.E-19
Fruit Intake/Waste Volume	<0.0001	<0.0001	2.E-18	2.E-18	2.E-19	<0.0001	<0.0001	3.E-20	2.E-20	4.E-17	<0.0001	9.E-16	1.E-14	6.E-17	6.E-19
Waste Concentration/Met. Location	<0.0001	<0.0001	1.E-18	9.E-19	9.E-20	<0.0001	<0.0001	4.E-21	5.E-21	3.E-17	<0.0001	3.E-16	4.E-15	9.E-18	2.E-19
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	3.E-18	2.E-18	2.E-19	<0.0001	<0.0001	1.E-20	1.E-20	6.E-17	<0.0001	7.E-16	1.E-14	3.E-17	6.E-19
Waste Concentration/Waste Volume	<0.0001	<0.0001	2.E-18	2.E-18	2.E-19	<0.0001	<0.0001	9.E-21	1.E-20	5.E-17	<0.0001	6.E-16	1.E-14	2.E-17	5.E-19
Met. Location/Distance to Receptor	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	3.E-17	<0.0001	8.E-16	5.E-15	4.E-17	3.E-19
Met Location/Waste Volume	<0.0001	<0.0001	9.E-19	1.E-18	1.E-19	<0.0001	<0.0001	1.E-20	1.E-20	2.E-17	<0.0001	7.E-16	4.E-15	3.E-17	3.E-19
Distance to Receptor/Waste Volume	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	1.E-14	9.E-17	8.E-19

**Table H.3-1b. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Gardener  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5,7,8, 9-	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6, 7,8,-	OCDF 1,2,3,4,6, 7,8,9-	HxCDD 1,2,3,4,7,8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1,2, 3,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2,3, 4,6,7,8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
Central Tendency	2.E-17	3.E-16	1.E-16	1.E-16	5.E-16	1.E-16	6.E-17	1.E-17	9.E-16	1.E-15	1.E-16	6.E-16	2.E-16	6.E-16	5.E-15	1.E-15	3.E-16	1.E-14
Single High End Parameter																		
Exposure Duration	8.E-17	1.E-15	4.E-16	4.E-16	2.E-15	4.E-16	2.E-16	4.E-17	3.E-15	5.E-15	4.E-16	2.E-15	6.E-16	2.E-15	2.E-14	4.E-15	1.E-15	4.E-14
Exposed Veg. Intake	4.E-17	5.E-16	2.E-16	2.E-16	7.E-16	2.E-16	9.E-17	2.E-17	1.E-15	2.E-15	2.E-16	9.E-16	3.E-16	9.E-16	7.E-15	2.E-15	5.E-16	2.E-14
Root Veg. Intake	3.E-17	3.E-16	1.E-16	1.E-16	5.E-16	1.E-16	7.E-17	1.E-17	1.E-15	1.E-15	1.E-16	7.E-16	2.E-16	7.E-16	5.E-15	1.E-15	4.E-16	1.E-14
Fruit Intake	7.E-17	1.E-15	4.E-16	4.E-16	1.E-15	3.E-16	2.E-16	3.E-17	3.E-15	4.E-15	4.E-16	2.E-15	5.E-16	2.E-15	1.E-14	3.E-15	9.E-16	3.E-14
Waste Concentration	8.E-15	2.E-15	3.E-15	1.E-15	2.E-14	6.E-16	4.E-15	3.E-15	7.E-14	4.E-14	2.E-17	5.E-15	4.E-15	1.E-14	1.E-13	3.E-14	3.E-15	3.E-13
Meteorological Location	3.E-17	4.E-16	1.E-16	1.E-16	5.E-16	1.E-16	5.E-17	1.E-17	1.E-15	2.E-15	1.E-16	5.E-16	2.E-16	6.E-16	5.E-15	1.E-15	3.E-16	1.E-14
Distance to Receptor	1.E-16	1.E-15	5.E-16	5.E-16	2.E-15	4.E-16	2.E-16	4.E-17	4.E-15	5.E-15	5.E-16	2.E-15	7.E-16	2.E-15	2.E-14	4.E-15	1.E-15	4.E-14
Waste Volume	8.E-17	1.E-15	4.E-16	4.E-16	2.E-15	4.E-16	2.E-16	4.E-17	3.E-15	5.E-15	4.E-16	2.E-15	6.E-16	2.E-15	2.E-14	4.E-15	1.E-15	4.E-14
Double High End Parameters																		
Exposure Duration/Exposed Veg. Intake	1.E-16	2.E-15	6.E-16	6.E-16	2.E-15	6.E-16	3.E-16	6.E-17	5.E-15	7.E-15	6.E-16	3.E-15	9.E-16	3.E-15	2.E-14	5.E-15	2.E-15	6.E-14
Exposure Duration/Root Veg. Intake	9.E-17	1.E-15	4.E-16	4.E-16	2.E-15	4.E-16	2.E-16	4.E-17	3.E-15	5.E-15	4.E-16	2.E-15	6.E-16	2.E-15	2.E-14	4.E-15	1.E-15	4.E-14
Exposure Duration/Fruit Intake	2.E-16	4.E-15	1.E-15	1.E-15	5.E-15	1.E-15	5.E-16	1.E-16	1.E-14	1.E-14	1.E-15	5.E-15	2.E-15	6.E-15	5.E-14	1.E-14	3.E-15	1.E-13
Exposure Duration/Waste Concentration	3.E-14	7.E-15	1.E-14	3.E-15	7.E-14	2.E-15	1.E-14	1.E-14	2.E-13	1.E-13	7.E-17	2.E-14	1.E-14	4.E-14	4.E-13	1.E-13	1.E-14	1.E-12
Exposure Duration/Met. Location	9.E-17	1.E-15	5.E-16	4.E-16	2.E-15	4.E-16	2.E-16	4.E-17	3.E-15	5.E-15	5.E-16	2.E-15	6.E-16	2.E-15	2.E-14	4.E-15	1.E-15	4.E-14
Exposure Duration/Distance to Receptor	3.E-16	4.E-15	2.E-15	2.E-15	6.E-15	1.E-15	7.E-16	1.E-16	1.E-14	2.E-14	2.E-15	7.E-15	2.E-15	8.E-15	6.E-14	1.E-14	4.E-15	1.E-13
Exposure Duration/Waste Volume	3.E-16	4.E-15	1.E-15	1.E-15	5.E-15	1.E-15	7.E-16	1.E-16	1.E-14	2.E-14	1.E-15	7.E-15	2.E-15	7.E-15	5.E-14	1.E-14	4.E-15	1.E-13
Exposed Veg. Intake/ Root Veg. Intake	4.E-17	5.E-16	2.E-16	2.E-16	7.E-16	2.E-16	1.E-16	2.E-17	1.E-15	2.E-15	2.E-16	9.E-16	3.E-16	1.E-15	7.E-15	2.E-15	5.E-16	2.E-14
Exposed Veg. Intake/ Fruit Intake	8.E-17	1.E-15	5.E-16	4.E-16	2.E-15	4.E-16	2.E-16	4.E-17	3.E-15	5.E-15	5.E-16	2.E-15	6.E-16	2.E-15	2.E-14	3.E-15	1.E-15	4.E-14
Exposed Veg. Intake/Waste Concentration	1.E-14	3.E-15	5.E-15	1.E-15	3.E-14	1.E-15	6.E-15	5.E-15	1.E-13	6.E-14	3.E-17	7.E-15	7.E-15	2.E-14	2.E-13	5.E-14	4.E-15	5.E-13
Exposed Veg. Intake/Met. Location	4.E-17	6.E-16	2.E-16	2.E-16	8.E-16	2.E-16	8.E-17	2.E-17	2.E-15	2.E-15	2.E-16	8.E-16	3.E-16	9.E-16	8.E-15	2.E-15	5.E-16	2.E-14
Exposed Veg. Intake/Distance to Receptor	1.E-16	2.E-15	8.E-16	7.E-16	3.E-15	6.E-16	3.E-16	7.E-17	5.E-15	8.E-15	8.E-16	3.E-15	1.E-15	3.E-15	3.E-14	6.E-15	2.E-15	7.E-14
Exposed Veg. Intake/Waste Volume	1.E-16	2.E-15	6.E-16	6.E-16	2.E-15	6.E-16	3.E-16	6.E-17	5.E-15	7.E-15	6.E-16	3.E-15	9.E-16	3.E-15	2.E-14	5.E-15	2.E-15	6.E-14
Root Veg. Intake/Fruit Intake	7.E-17	1.E-15	4.E-16	4.E-16	1.E-15	3.E-16	2.E-16	3.E-17	3.E-15	4.E-15	4.E-16	2.E-15	6.E-16	2.E-15	1.E-14	3.E-15	9.E-16	3.E-14
Root Veg. Intake/Waste Concentration	9.E-15	2.E-15	3.E-15	1.E-15	2.E-14	7.E-16	5.E-15	4.E-15	7.E-14	4.E-14	2.E-17	5.E-15	5.E-15	1.E-14	1.E-13	3.E-14	3.E-15	3.E-13
Root Veg. Intake/Met. Location	3.E-17	4.E-16	1.E-16	1.E-16	5.E-16	1.E-16	6.E-17	1.E-17	1.E-15	2.E-15	1.E-16	6.E-16	2.E-16	6.E-16	5.E-15	1.E-15	3.E-16	1.E-14
Root Veg. Intake/Distance to Receptor	1.E-16	1.E-15	5.E-16	5.E-16	2.E-15	4.E-16	2.E-16	5.E-17	4.E-15	6.E-15	5.E-16	2.E-15	7.E-16	2.E-15	2.E-14	4.E-15	1.E-15	4.E-14
Root Veg. Intake/Waste Volume	9.E-17	1.E-15	4.E-16	4.E-16	2.E-15	4.E-16	2.E-16	4.E-17	3.E-15	5.E-15	4.E-16	2.E-15	6.E-16	2.E-15	2.E-14	4.E-15	1.E-15	4.E-14
Fruit Intake/Waste Concentration	2.E-14	7.E-15	1.E-14	3.E-15	7.E-14	2.E-15	1.E-14	1.E-14	2.E-13	1.E-13	7.E-17	1.E-14	1.E-14	4.E-14	3.E-13	9.E-14	8.E-15	1.E-12
Fruit Intake/Met. Location	8.E-17	1.E-15	4.E-16	4.E-16	2.E-15	4.E-16	2.E-16	4.E-17	3.E-15	5.E-15	4.E-16	2.E-15	6.E-16	2.E-15	2.E-14	3.E-15	1.E-15	4.E-14
Fruit Intake/Distance to Receptor	3.E-16	4.E-15	2.E-15	1.E-15	6.E-15	1.E-15	6.E-16	1.E-16	1.E-14	2.E-14	2.E-15	6.E-15	2.E-15	6.E-15	6.E-14	1.E-14	4.E-15	1.E-13
Fruit Intake/Waste Volume	2.E-16	4.E-15	1.E-15	1.E-15	5.E-15	1.E-15	5.E-16	1.E-16	1.E-14	1.E-14	1.E-15	5.E-15	2.E-15	6.E-15	5.E-14	1.E-14	3.E-15	1.E-13
Waste Concentration/Met. Location	9.E-15	3.E-15	4.E-15	9.E-16	2.E-14	7.E-16	4.E-15	4.E-15	8.E-14	4.E-14	2.E-17	5.E-15	5.E-15	1.E-14	1.E-13	3.E-14	3.E-15	3.E-13
Waste Concentration/Distance to Receptor	3.E-14	9.E-15	1.E-14	4.E-15	8.E-14	2.E-15	1.E-14	1.E-14	3.E-13	1.E-13	9.E-17	2.E-14	2.E-14	5.E-14	4.E-13	1.E-13	1.E-14	1.E-12
Waste Concentration/Waste Volume	3.E-14	7.E-15	1.E-14	3.E-15	7.E-14	2.E-15	1.E-14	1.E-14	2.E-13	1.E-13	7.E-17	2.E-14	1.E-14	4.E-14	4.E-13	1.E-13	1.E-14	1.E-12
Met. Location/Distance to Receptor	1.E-16	2.E-15	6.E-16	5.E-16	2.E-15	5.E-16	2.E-16	5.E-17	4.E-15	6.E-15	6.E-16	2.E-15	8.E-16	2.E-15	2.E-14	4.E-15	1.E-15	5.E-14
Met Location/Waste Volume	9.E-17	1.E-15	5.E-16	4.E-16	2.E-15	4.E-16	2.E-16	4.E-17	3.E-15	5.E-15	5.E-16	2.E-15	6.E-16	2.E-15	2.E-14	4.E-15	1.E-15	4.E-14
Distance to Receptor/Waste Volume	3.E-16	4.E-15	2.E-15	2.E-15	6.E-15	1.E-15	7.E-16	1.E-16	1.E-14	2.E-14	2.E-15	7.E-15	2.E-15	8.E-15	6.E-14	1.E-14	4.E-15	1.E-13

**Table H.3-1d. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Fisher  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachlorobenzene	Tetrachloroethylene
<b>Central Tendency</b>	<0.0001	<0.0001	9.E-19	1.E-17	2.E-19	<0.0001	<0.0001	6E-20	7.E-20	6.E-17	<0.0001	1.E-16	2.E-20	7.E-15	<0.0001
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	3.E-18	4.E-17	8.E-19	<0.0001	<0.0001	2E-19	2.E-19	2.E-16	<0.0001	4.E-16	6.E-20	2.E-14	<0.0001
Fish Intake	<0.0001	<0.0001	3.E-18	4.E-17	7.E-19	<0.0001	<0.0001	2E-19	2.E-19	2.E-16	<0.0001	4.E-16	6.E-20	2.E-14	<0.0001
Waste Concentration	<0.0001	<0.0001	4.E-18	2.E-17	6.E-19	<0.0001	<0.0001	6E-20	8.E-20	2.E-16	<0.0001	2.E-16	6.E-20	7.E-15	<0.0001
Meteorological Location	<0.0001	<0.0001	1.E-18	2.E-17	3.E-19	<0.0001	<0.0001	9E-20	1.E-19	7.E-17	<0.0001	2.E-16	1.E-20	6.E-15	<0.0001
Distance to Receptor	<0.0001	<0.0001	2.E-18	3.E-17	7.E-19	<0.0001	<0.0001	2E-19	2.E-19	2.E-16	<0.0001	4.E-16	5.E-20	2.E-14	<0.0001
Waste Volume	<0.0001	<0.0001	3.E-18	4.E-17	8.E-19	<0.0001	<0.0001	2E-19	2.E-19	2.E-16	<0.0001	4.E-16	6.E-20	2.E-14	<0.0001
<b>Double High End Parameters</b>															
Exposure Duration/Fish Intake	<0.0001	<0.0001	9.E-18	1.E-16	2.E-18	<0.0001	<0.0001	6E-19	7.E-19	6.E-16	<0.0001	1.E-15	2.E-19	8.E-14	<0.0001
Exposure Duration/Waste Concentration	<0.0001	<0.0001	1.E-17	8.E-17	2.E-18	<0.0001	<0.0001	2E-19	3.E-19	7.E-16	<0.0001	7.E-16	2.E-19	2.E-14	<0.0001
Exposure Duration/Met. Location	<0.0001	<0.0001	4.E-18	6.E-17	1.E-18	<0.0001	<0.0001	3E-19	3.E-19	2.E-16	<0.0001	5.E-16	5.E-20	2.E-14	<0.0001
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	8.E-18	8.E-17	2.E-18	<0.0001	<0.0001	5E-19	6.E-19	5.E-16	<0.0001	1.E-15	2.E-19	7.E-14	<0.0001
Exposure Duration/Waste Volume	<0.0001	<0.0001	1.E-17	1.E-16	3.E-18	<0.0001	<0.0001	7E-19	8.E-19	6.E-16	<0.0001	1.E-15	2.E-19	8.E-14	<0.0001
Fish Intake/Waste Concentration	<0.0001	<0.0001	1.E-17	8.E-17	2.E-18	<0.0001	<0.0001	2E-19	3.E-19	7.E-16	<0.0001	7.E-16	2.E-19	2.E-14	<0.0001
Fish Intake/Met. Location	<0.0001	<0.0001	4.E-18	5.E-17	1.E-18	<0.0001	<0.0001	3E-19	3.E-19	2.E-16	<0.0001	5.E-16	4.E-20	2.E-14	<0.0001
Fish Intake/Distance to Receptor	<0.0001	<0.0001	8.E-18	8.E-17	2.E-18	<0.0001	<0.0001	5E-19	5.E-19	5.E-16	<0.0001	1.E-15	2.E-19	7.E-14	<0.0001
Fish Intake/Waste Volume	<0.0001	<0.0001	9.E-18	1.E-16	2.E-18	<0.0001	<0.0001	7E-19	7.E-19	6.E-16	<0.0001	1.E-15	2.E-19	8.E-14	<0.0001
Waste Concentration/Met. Location	<0.0001	<0.0001	5.E-18	4.E-17	8.E-19	<0.0001	<0.0001	9E-20	1.E-19	3.E-16	<0.0001	3.E-16	4.E-20	6.E-15	<0.0001
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	9.E-18	6.E-17	2.E-18	<0.0001	<0.0001	2E-19	2.E-19	6.E-16	<0.0001	7.E-16	2.E-19	2.E-14	<0.0001
Waste Concentration/Waste Volume	<0.0001	<0.0001	1.E-17	8.E-17	2.E-18	<0.0001	<0.0001	2E-19	3.E-19	7.E-16	<0.0001	7.E-16	2.E-19	2.E-14	<0.0001
Met. Location/Distance to Receptor	<0.0001	<0.0001	3.E-18	4.E-17	9.E-19	<0.0001	<0.0001	2E-19	2.E-19	2.E-16	<0.0001	5.E-16	5.E-20	2.E-14	<0.0001
Met Location/Waste Volume	<0.0001	<0.0001	4.E-18	6.E-17	1.E-18	<0.0001	<0.0001	3E-19	3.E-19	2.E-16	<0.0001	5.E-16	5.E-20	2.E-14	<0.0001
Distance to Receptor/Waste Volume	<0.0001	<0.0001	8.E-18	8.E-17	2.E-18	<0.0001	<0.0001	5E-19	6.E-19	5.E-16	<0.0001	1.E-15	2.E-19	7.E-14	<0.0001



**Table H.3-1d. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Fisher  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5,7,8,9	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6, 7,8,-	OCDF 1,2,3,4,6, 7,8,9-	HxCDD 1,2,3,4,7,8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1,2, 3,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2, 3,4,6,7,8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
Central Tendency	3.E-18	5.E-22	2.E-19	3.E-20	6.E-22	2.E-19	5.E-19	2.E-19	2.E-19	4.E-18	4.E-19	2.E-18	2.E-19	2.E-18	9.E-19	4.E-18	1.E-18	2.E-17
Single High End Parameter																		
Exposure Duration	1.E-17	2.E-21	6.E-19	8.E-20	2.E-21	5.E-19	2.E-18	5.E-19	6.E-19	1.E-17	1.E-18	6.E-18	8.E-19	7.E-18	3.E-18	1.E-17	4.E-18	6.E-17
Fish Intake	1.E-17	1.E-21	6.E-19	8.E-20	2.E-21	5.E-19	1.E-18	5.E-19	5.E-19	1.E-17	1.E-18	6.E-18	8.E-19	7.E-18	3.E-18	1.E-17	4.E-18	6.E-17
Waste Concentration	1.E-15	3.E-21	5.E-18	2.E-19	3.E-20	9.E-19	3.E-17	5.E-17	1.E-17	1.E-16	7.E-20	2.E-17	6.E-18	4.E-17	2.E-17	1.E-16	1.E-17	1.E-15
Meteorological Location	2.E-18	2.E-22	1.E-19	2.E-20	4.E-22	9.E-20	3.E-19	1.E-19	1.E-19	3.E-18	2.E-19	1.E-18	2.E-19	1.E-18	5.E-19	2.E-18	7.E-19	1.E-17
Distance to Receptor	9.E-18	1.E-21	4.E-19	5.E-20	1.E-21	3.E-19	9.E-19	3.E-19	3.E-19	8.E-18	8.E-19	4.E-18	5.E-19	4.E-18	2.E-18	7.E-18	2.E-18	4.E-17
Waste Volume	1.E-17	2.E-21	6.E-19	8.E-20	2.E-21	5.E-19	2.E-18	5.E-19	6.E-19	1.E-17	1.E-18	6.E-18	8.E-19	7.E-18	3.E-18	1.E-17	4.E-18	6.E-17
Double High End Parameters																		
Exposure Duration/Fish Intake	3.E-17	5.E-21	2.E-18	3.E-19	6.E-21	2.E-18	5.E-18	2.E-18	2.E-18	4.E-17	4.E-18	2.E-17	3.E-18	2.E-17	9.E-18	4.E-17	1.E-17	2.E-16
Exposure Duration/Waste Concentration	4.E-15	1.E-20	2.E-17	7.E-19	9.E-20	3.E-18	1.E-16	2.E-16	4.E-17	4.E-16	2.E-19	5.E-17	2.E-17	1.E-16	7.E-17	4.E-16	3.E-17	5.E-15
Exposure Duration/Met. Location	5.E-18	7.E-22	4.E-19	5.E-20	1.E-21	3.E-19	1.E-18	3.E-19	3.E-19	9.E-18	8.E-19	4.E-18	5.E-19	4.E-18	2.E-18	8.E-18	2.E-18	4.E-17
Exposure Duration/Distance to Receptor	3.E-17	5.E-21	1.E-18	2.E-19	4.E-21	1.E-18	3.E-18	1.E-18	1.E-18	3.E-17	3.E-18	1.E-17	2.E-18	1.E-17	6.E-18	2.E-17	8.E-18	1.E-16
Exposure Duration/Waste Volume	4.E-17	5.E-21	2.E-18	3.E-19	7.E-21	2.E-18	5.E-18	2.E-18	2.E-18	5.E-17	4.E-18	2.E-17	3.E-18	2.E-17	1.E-17	4.E-17	1.E-17	2.E-16
Fish Intake/Waste Concentration	3.E-15	1.E-20	1.E-17	6.E-19	8.E-20	3.E-18	1.E-16	1.E-16	4.E-17	4.E-16	2.E-19	5.E-17	2.E-17	1.E-16	6.E-17	4.E-16	3.E-17	5.E-15
Fish Intake/Met. Location	5.E-18	7.E-22	3.E-19	5.E-20	1.E-21	3.E-19	9.E-19	3.E-19	3.E-19	8.E-18	7.E-19	4.E-18	5.E-19	4.E-18	2.E-18	7.E-18	2.E-18	4.E-17
Fish Intake/Distance to Receptor	3.E-17	4.E-21	1.E-18	2.E-19	4.E-21	9.E-19	3.E-18	1.E-18	1.E-18	3.E-17	2.E-18	1.E-17	2.E-18	1.E-17	5.E-18	2.E-17	7.E-18	1.E-16
Fish Intake/Waste Volume	3.E-17	5.E-21	2.E-18	3.E-19	6.E-21	2.E-18	5.E-18	2.E-18	2.E-18	4.E-17	4.E-18	2.E-17	3.E-18	2.E-17	9.E-18	4.E-17	1.E-17	2.E-16
Waste Concentration/Met. Location	5.E-16	1.E-21	3.E-18	1.E-19	2.E-20	5.E-19	2.E-17	3.E-17	8.E-18	7.E-17	4.E-20	1.E-17	4.E-18	3.E-17	1.E-17	7.E-17	6.E-18	8.E-16
Waste Concentration/Distance to Receptor	3.E-15	1.E-20	9.E-18	4.E-19	5.E-20	2.E-18	6.E-17	9.E-17	3.E-17	2.E-16	1.E-19	3.E-17	1.E-17	9.E-17	4.E-17	2.E-16	2.E-17	4.E-15
Waste Concentration/Waste Volume	4.E-15	1.E-20	2.E-17	6.E-19	9.E-20	3.E-18	1.E-16	2.E-16	4.E-17	4.E-16	2.E-19	5.E-17	2.E-17	1.E-16	7.E-17	4.E-16	3.E-17	5.E-15
Met. Location/Distance to Receptor	5.E-18	7.E-22	2.E-19	3.E-20	8.E-22	2.E-19	6.E-19	2.E-19	2.E-19	6.E-18	5.E-19	3.E-18	3.E-19	3.E-18	1.E-18	5.E-18	2.E-18	3.E-17
Met Location/Waste Volume	5.E-18	7.E-22	4.E-19	5.E-20	1.E-21	3.E-19	1.E-18	3.E-19	3.E-19	9.E-18	8.E-19	4.E-18	5.E-19	4.E-18	2.E-18	8.E-18	2.E-18	4.E-17
Distance to Receptor/Waste Volume	3.E-17	5.E-21	1.E-18	2.E-19	4.E-21	1.E-18	3.E-18	1.E-18	1.E-18	3.E-17	3.E-18	1.E-17	2.E-18	1.E-17	6.E-18	2.E-17	8.E-18	1.E-16

**Table H.3-1e. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic),  
Child of Resident**

6/25/99

**(Risk Results Based on Dry Weight Waste Concentrations)**

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachlorobenzene	Tetrachloroethylene
<b>Central Tendency</b>	<0.0001	<0.0001	2.E-21	2.E-21	2.E-22	<0.0001	<0.0001	4.E-23	2.E-23	3.E-20	<0.0001	8.E-19	7.E-21	3.E-18	1.E-21
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	4.E-21	5.E-21	3.E-22	<0.0001	<0.0001	9.E-23	5.E-23	7.E-20	<0.0001	2.E-18	2.E-20	6.E-18	2.E-21
Waste Concentration	<0.0001	<0.0001	8.E-21	5.E-21	4.E-22	<0.0001	<0.0001	4.E-23	3.E-23	1.E-19	<0.0001	1.E-18	2.E-20	3.E-18	2.E-21
Child Soil Intake	<0.0001	<0.0001	6.E-21	6.E-21	4.E-22	<0.0001	<0.0001	1.E-22	6.E-23	1.E-19	<0.0001	2.E-18	2.E-20	9.E-18	3.E-21
Meteorological Location	<0.0001	<0.0001	4.E-21	4.E-21	3.E-22	<0.0001	<0.0001	9.E-23	4.E-23	7.E-20	<0.0001	2.E-18	9.E-21	6.E-18	2.E-21
Distance to Receptor	<0.0001	<0.0001	8.E-21	8.E-21	6.E-22	<0.0001	<0.0001	2.E-22	8.E-23	1.E-19	<0.0001	3.E-18	3.E-20	1.E-17	4.E-21
Waste Volume	<0.0001	<0.0001	7.E-21	7.E-21	5.E-22	<0.0001	<0.0001	2.E-22	7.E-23	1.E-19	<0.0001	3.E-18	2.E-20	1.E-17	3.E-21
<b>Double High End Parameters</b>															
Exposure Duration/Waste Concentration	<0.0001	<0.0001	2.E-20	1.E-20	8.E-22	<0.0001	<0.0001	9.E-23	5.E-23	3.E-19	<0.0001	3.E-18	5.E-20	6.E-18	5.E-21
Exposure Duration/Child Soil Intake	<0.0001	<0.0001	1.E-20	1.E-20	9.E-22	<0.0001	<0.0001	3.E-22	1.E-22	2.E-19	<0.0001	5.E-18	5.E-20	2.E-17	6.E-21
Exposure Duration/Met. Location	<0.0001	<0.0001	9.E-21	9.E-21	6.E-22	<0.0001	<0.0001	2.E-22	9.E-23	1.E-19	<0.0001	3.E-18	2.E-20	1.E-17	4.E-21
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	2.E-20	2.E-20	1.E-21	<0.0001	<0.0001	4.E-22	2.E-22	3.E-19	<0.0001	6.E-18	6.E-20	2.E-17	8.E-21
Exposure Duration/Waste Volume	<0.0001	<0.0001	1.E-20	2.E-20	1.E-21	<0.0001	<0.0001	3.E-22	2.E-22	2.E-19	<0.0001	5.E-18	5.E-20	2.E-17	7.E-21
Waste Concentration/ Child Soil Intake	<0.0001	<0.0001	2.E-20	1.E-20	1.E-21	<0.0001	<0.0001	1.E-22	8.E-23	4.E-19	<0.0001	4.E-18	7.E-20	9.E-18	7.E-21
Waste Concentration/Met. Location	<0.0001	<0.0001	2.E-20	1.E-20	8.E-22	<0.0001	<0.0001	9.E-23	5.E-23	3.E-19	<0.0001	3.E-18	3.E-20	6.E-18	5.E-21
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	3.E-20	2.E-20	1.E-21	<0.0001	<0.0001	2.E-22	1.E-22	5.E-19	<0.0001	5.E-18	9.E-20	1.E-17	9.E-21
Waste Concentration/Waste Volume	<0.0001	<0.0001	3.E-20	2.E-20	1.E-21	<0.0001	<0.0001	2.E-22	8.E-23	4.E-19	<0.0001	4.E-18	8.E-20	1.E-17	8.E-21
Child Soil Intake/ Met. Location	<0.0001	<0.0001	1.E-20	1.E-20	9.E-22	<0.0001	<0.0001	3.E-22	1.E-22	2.E-19	<0.0001	5.E-18	3.E-20	2.E-17	6.E-21
Child Soil Intake/Distance to Receptor	<0.0001	<0.0001	2.E-20	2.E-20	2.E-21	<0.0001	<0.0001	5.E-22	2.E-22	4.E-19	<0.0001	9.E-18	8.E-20	4.E-17	1.E-20
Child Soil Intake/Waste Volume	<0.0001	<0.0001	2.E-20	2.E-20	1.E-21	<0.0001	<0.0001	4.E-22	2.E-22	3.E-19	<0.0001	8.E-18	7.E-20	3.E-17	1.E-20
Met. Location/Distance to Receptor	<0.0001	<0.0001	2.E-20	2.E-20	1.E-21	<0.0001	<0.0001	4.E-22	2.E-22	3.E-19	<0.0001	6.E-18	3.E-20	2.E-17	8.E-21
Met Location/Waste Volume	<0.0001	<0.0001	1.E-20	2.E-20	1.E-21	<0.0001	<0.0001	3.E-22	2.E-22	2.E-19	<0.0001	5.E-18	3.E-20	2.E-17	7.E-21
Distance to Receptor/Waste Volume	<0.0001	<0.0001	3.E-20	3.E-20	2.E-21	<0.0001	<0.0001	6.E-22	3.E-22	4.E-19	<0.0001	1.E-17	9.E-20	4.E-17	1.E-20

**Table H.3-1e. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic),  
Child of Resident  
(Risk Results Based on Dry Weight Waste Concentrations)**

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High End Parameter(s)	HxCDD 1,2,3,7,8 ,9-	HpCDD 1,2,3,4,6, 7,8,-	OCDF 1,2,3,4,6, 7,8,9-	HxCDD 1,2,3,4, 7,8-	PeCDD 1,2,3,7,8	TCDF 2,3,7,8-	HpCDF 1,2,3,4, 7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7, 8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF 1,2,3,4,6,7, 8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9	TEQ
<b>Central Tendency</b>	4.E-17	8.E-17	1.E-16	5.E-17	5.E-17	6.E-18	3.E-16	4.E-16	3.E-17	6.E-16	6.E-17	5.E-16	2.E-15	8.E-16	3.E-16	5.E-15
<b>Single High End Parameter</b>																
Exposure Duration	8.E-17	2.E-16	2.E-16	1.E-16	1.E-16	1.E-17	6.E-16	8.E-16	6.E-17	1.E-15	1.E-16	1.E-15	3.E-15	2.E-15	6.E-16	6.E-15
Waste Concentration	1.E-15	6.E-16	5.E-15	3.E-16	3.E-15	2.E-15	2.E-14	1.E-14	5.E-18	5.E-15	1.E-15	1.E-14	3.E-14	2.E-14	2.E-15	1.E-13
Child Soil Intake	1.E-16	2.E-16	3.E-16	2.E-16	2.E-16	2.E-17	9.E-16	1.E-15	9.E-17	2.E-15	2.E-16	2.E-15	5.E-15	2.E-15	8.E-16	1.E-14
Meteorological Location	2.E-17	3.E-17	3.E-17	2.E-17	3.E-17	6.E-18	2.E-16	2.E-16	2.E-17	2.E-16	3.E-17	2.E-16	8.E-16	4.E-16	1.E-16	2.E-15
Distance to Receptor	1.E-16	2.E-16	3.E-16	1.E-16	2.E-16	2.E-17	9.E-16	1.E-15	9.E-17	2.E-15	2.E-16	2.E-15	5.E-15	2.E-15	8.E-16	1.E-14
Waste Volume	1.E-16	3.E-16	3.E-16	2.E-16	2.E-16	2.E-17	1.E-15	1.E-15	1.E-16	2.E-15	2.E-16	2.E-15	5.E-15	3.E-15	9.E-16	1.E-14
<b>Double High End Parameters</b>																
Exposure Duration/Waste Concentration	2.E-15	1.E-15	1.E-14	6.E-16	7.E-15	4.E-15	5.E-14	2.E-14	1.E-17	1.E-14	3.E-15	2.E-14	7.E-14	5.E-14	5.E-15	2.E-13
Exposure Duration/Child Soil Intake	3.E-16	5.E-16	6.E-16	3.E-16	3.E-16	4.E-17	2.E-15	2.E-15	2.E-16	4.E-15	4.E-16	3.E-15	9.E-15	5.E-15	2.E-15	2.E-14
Exposure Duration/Met. Location	4.E-17	5.E-17	6.E-17	4.E-17	5.E-17	1.E-17	3.E-16	5.E-16	4.E-17	5.E-16	6.E-17	5.E-16	2.E-15	9.E-16	3.E-16	3.E-15
Exposure Duration/Distance to Receptor	3.E-16	5.E-16	6.E-16	3.E-16	3.E-16	5.E-17	2.E-15	3.E-15	2.E-16	4.E-15	4.E-16	3.E-15	1.E-14	5.E-15	2.E-15	2.E-14
Exposure Duration/Waste Volume	3.E-16	6.E-16	7.E-16	4.E-16	3.E-16	4.E-17	2.E-15	3.E-15	2.E-16	4.E-15	4.E-16	4.E-15	1.E-14	5.E-15	2.E-15	2.E-14
Waste Concentration/ Child Soil Intake	3.E-15	2.E-15	1.E-14	9.E-16	1.E-14	6.E-15	7.E-14	3.E-14	2.E-17	1.E-14	4.E-15	3.E-14	1.E-13	7.E-14	7.E-15	4.E-13
Waste Concentration/Met. Location	5.E-16	2.E-16	1.E-15	1.E-16	2.E-15	2.E-15	1.E-14	6.E-15	3.E-18	2.E-15	7.E-16	5.E-15	2.E-14	1.E-14	1.E-15	6.E-14
Waste Concentration/Distance to Receptor	3.E-15	2.E-15	1.E-14	8.E-16	1.E-14	6.E-15	7.E-14	3.E-14	2.E-17	1.E-14	4.E-15	3.E-14	1.E-13	7.E-14	7.E-15	3.E-13
Waste Concentration/Waste Volume	3.E-15	2.E-15	2.E-14	1.E-15	1.E-14	6.E-15	7.E-14	4.E-14	2.E-17	2.E-14	5.E-15	4.E-14	1.E-13	8.E-14	8.E-15	4.E-13
Child Soil Intake/ Met. Location	6.E-17	8.E-17	9.E-17	6.E-17	7.E-17	2.E-17	5.E-16	6.E-16	6.E-17	7.E-16	8.E-17	7.E-16	2.E-15	1.E-15	4.E-16	7.E-15
Child Soil Intake/Distance to Receptor	4.E-16	7.E-16	8.E-16	4.E-16	5.E-16	6.E-17	3.E-15	4.E-15	3.E-16	5.E-15	5.E-16	5.E-15	1.E-14	7.E-15	3.E-15	5.E-14
Child Soil Intake/Waste Volume	4.E-16	8.E-16	1.E-15	5.E-16	5.E-16	6.E-17	3.E-15	4.E-15	3.E-16	6.E-15	6.E-16	5.E-15	2.E-14	8.E-15	3.E-15	5.E-14
Met. Location/Distance to Receptor	6.E-17	7.E-17	8.E-17	5.E-17	7.E-17	2.E-17	4.E-16	6.E-16	5.E-17	7.E-16	8.E-17	7.E-16	2.E-15	1.E-15	4.E-16	6.E-15
Met Location/Waste Volume	7.E-17	9.E-17	1.E-16	6.E-17	8.E-17	2.E-17	5.E-16	7.E-16	6.E-17	8.E-16	9.E-17	8.E-16	3.E-15	1.E-15	4.E-16	7.E-15
Distance to Receptor/Waste Volume	4.E-16	8.E-16	9.E-16	5.E-16	5.E-16	7.E-17	3.E-15	4.E-15	3.E-16	6.E-15	6.E-16	5.E-15	2.E-14	8.E-15	3.E-15	4.E-14

**Table H.3-1f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Child of Farmer  
(Risk Results Based on Dry Weight Waste Concentrations)**

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachlorobenzene	Tetrachloroethylene
<b>Central Tendency</b>	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	9.E-21	9.E-21	1.E-17	<0.0001	4.E-16	1.E-11	2.E-15	2.E-19
<b>Single High End Parameter</b>															
Exposure Duration	<0.0001	<0.0001	1.E-18	2.E-18	2.E-19	<0.0001	<0.0001	2.E-20	2.E-20	3.E-17	<0.0001	8.E-16	2.E-11	4.E-15	4.E-19
Beef Intake	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	1.E-20	9.E-21	1.E-17	<0.0001	4.E-16	2.E-11	4.E-15	2.E-19
Dairy Intake	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	1.E-20	9.E-21	1.E-17	<0.0001	4.E-16	2.E-11	3.E-15	2.E-19
Exposed Veg. Intake	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	3.E-17	<0.0001	7.E-16	1.E-11	2.E-15	3.E-19
Root Veg. Intake	<0.0001	<0.0001	6.E-19	9.E-19	8.E-20	<0.0001	<0.0001	1.E-20	1.E-20	1.E-17	<0.0001	4.E-16	1.E-11	2.E-15	2.E-19
Fruit Intake	<0.0001	<0.0001	3.E-18	3.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	5.E-17	<0.0001	1.E-15	1.E-11	2.E-15	9.E-19
Waste Concentration	<0.0001	<0.0001	2.E-18	2.E-18	2.E-19	<0.0001	<0.0001	9.E-21	1.E-20	5.E-17	<0.0001	6.E-16	3.E-11	2.E-15	5.E-19
Child Soil Intake	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	1.E-20	9.E-21	1.E-17	<0.0001	4.E-16	1.E-11	2.E-15	2.E-19
Meteorological Location	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	2.E-17	<0.0001	7.E-16	1.E-11	2.E-15	3.E-19
Distance to Receptor	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	5.E-17	<0.0001	1.E-15	4.E-11	7.E-15	8.E-19
Waste Volume	<0.0001	<0.0001	2.E-18	3.E-18	2.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	4.E-11	6.E-15	7.E-19
<b>Double High End Parameters</b>															
Exposure Duration/Beef Intake	<0.0001	<0.0001	1.E-18	2.E-18	2.E-19	<0.0001	<0.0001	2.E-20	2.E-20	3.E-17	<0.0001	7.E-16	4.E-11	8.E-15	5.E-19
Exposure Duration/Dairy Intake	<0.0001	<0.0001	1.E-18	2.E-18	2.E-19	<0.0001	<0.0001	2.E-20	2.E-20	3.E-17	<0.0001	7.E-16	4.E-11	7.E-15	5.E-19
Exposure Duration/Exposed Veg. Intake	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	2.E-11	4.E-15	7.E-19
Exposure Duration/Root Veg. Intake	<0.0001	<0.0001	1.E-18	2.E-18	2.E-19	<0.0001	<0.0001	2.E-20	2.E-20	3.E-17	<0.0001	8.E-16	2.E-11	4.E-15	5.E-19
Exposure Duration/Fruit Intake	<0.0001	<0.0001	5.E-18	7.E-18	6.E-19	<0.0001	<0.0001	8.E-20	8.E-20	1.E-16	<0.0001	3.E-15	2.E-11	4.E-15	2.E-18
Exposure Duration/Waste Concentration	<0.0001	<0.0001	5.E-18	4.E-18	4.E-19	<0.0001	<0.0001	2.E-20	2.E-20	1.E-16	<0.0001	1.E-15	7.E-11	4.E-15	1.E-18
Exposure Duration/Child Soil Intake	<0.0001	<0.0001	1.E-18	2.E-18	2.E-19	<0.0001	<0.0001	2.E-20	2.E-20	3.E-17	<0.0001	7.E-16	2.E-11	4.E-15	5.E-19
Exposure Duration/Met. Location	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	3.E-11	5.E-15	6.E-19
Exposure Duration/Distance to Receptor	<0.0001	<0.0001	5.E-18	7.E-18	6.E-19	<0.0001	<0.0001	8.E-20	7.E-20	1.E-16	<0.0001	3.E-15	9.E-11	2.E-14	2.E-18
Exposure Duration/Waste Volume	<0.0001	<0.0001	4.E-18	6.E-18	5.E-19	<0.0001	<0.0001	7.E-20	6.E-20	9.E-17	<0.0001	2.E-15	7.E-11	1.E-14	2.E-18
Beef Intake/ Dairy Intake	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	1.E-20	9.E-21	1.E-17	<0.0001	4.E-16	3.E-11	5.E-15	2.E-19
Beef Intake/ Exposed Veg. Intake	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	3.E-17	<0.0001	7.E-16	2.E-11	4.E-15	3.E-19
Beef Intake/Root Vegetable Intake	<0.0001	<0.0001	6.E-19	9.E-19	8.E-20	<0.0001	<0.0001	1.E-20	1.E-20	1.E-17	<0.0001	4.E-16	2.E-11	4.E-15	2.E-19
Beef Intake/Fruit Intake	<0.0001	<0.0001	3.E-18	3.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	5.E-17	<0.0001	1.E-15	2.E-11	4.E-15	9.E-19
Beef Intake/Waste Concentration	<0.0001	<0.0001	2.E-18	2.E-18	2.E-19	<0.0001	<0.0001	1.E-20	1.E-20	5.E-17	<0.0001	6.E-16	6.E-11	4.E-15	5.E-19
Beef Intake/Child Soil Intake	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	1.E-20	9.E-21	1.E-17	<0.0001	4.E-16	2.E-11	4.E-15	2.E-19
Beef Intake/Met. Location	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	2.E-17	<0.0001	7.E-16	2.E-11	4.E-15	3.E-19
Beef Intake/Distance to Receptor	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	5.E-17	<0.0001	1.E-15	8.E-11	1.E-14	9.E-19
Beef Intake/Waste Volume	<0.0001	<0.0001	2.E-18	3.E-18	2.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	7.E-11	1.E-14	7.E-19
Dairy Intake/Exposed Vegetable Intake	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	3.E-17	<0.0001	7.E-16	2.E-11	3.E-15	3.E-19
Dairy Intake/Root Vegetable Intake	<0.0001	<0.0001	6.E-19	9.E-19	8.E-20	<0.0001	<0.0001	1.E-20	1.E-20	1.E-17	<0.0001	4.E-16	2.E-11	3.E-15	2.E-19
Dairy Intake/Fruit Intake	<0.0001	<0.0001	3.E-18	3.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	5.E-17	<0.0001	1.E-15	2.E-11	3.E-15	9.E-19
Dairy Intake/Waste Concentration	<0.0001	<0.0001	2.E-18	2.E-18	2.E-19	<0.0001	<0.0001	1.E-20	1.E-20	5.E-17	<0.0001	6.E-16	6.E-11	3.E-15	5.E-19
Dairy Intake/ Child Soil Intake	<0.0001	<0.0001	6.E-19	9.E-19	7.E-20	<0.0001	<0.0001	1.E-20	9.E-21	1.E-17	<0.0001	4.E-16	2.E-11	3.E-15	2.E-19
Dairy Intake/ Met. Location	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	2.E-17	<0.0001	7.E-16	2.E-11	4.E-15	3.E-19
Dairy Intake/Distance to Receptor	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	5.E-17	<0.0001	1.E-15	7.E-11	1.E-14	9.E-19
Dairy Intake/Waste Volume	<0.0001	<0.0001	2.E-18	3.E-18	2.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	6.E-11	1.E-14	7.E-19

**Table H.3-1f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Child of Farmer  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Benzoic acid	Acetone	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Bis(2-ethylhexyl) phthalate	Hexachlorobenzene	Tetrachloroethylene
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	3.E-17	<0.0001	7.E-16	1.E-11	2.E-15	3.E-19
Exposed Veg. Intake/ Fruit Intake	<0.0001	<0.0001	3.E-18	4.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	7.E-17	<0.0001	2.E-15	1.E-11	2.E-15	1.E-18
Exposed Veg. Intake/Waste Concentration	<0.0001	<0.0001	4.E-18	3.E-18	3.E-19	<0.0001	<0.0001	1.E-20	2.E-20	1.E-16	<0.0001	1.E-15	3.E-11	2.E-15	8.E-19
Exposed Veg. Intake/Child Soil Intake	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	3.E-17	<0.0001	7.E-16	1.E-11	2.E-15	3.E-19
Exposed Veg. Intake/Met. Location	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	2.E-20	3.E-20	5.E-17	<0.0001	1.E-15	1.E-11	2.E-15	5.E-19
Exposed Veg. Intake/Distance to Receptor	<0.0001	<0.0001	4.E-18	6.E-18	5.E-19	<0.0001	<0.0001	6.E-20	6.E-20	1.E-16	<0.0001	3.E-15	4.E-11	7.E-15	1.E-18
Exposed Veg. Intake/Waste Volume	<0.0001	<0.0001	3.E-18	5.E-18	4.E-19	<0.0001	<0.0001	5.E-20	6.E-20	8.E-17	<0.0001	2.E-15	4.E-11	6.E-15	1.E-18
Root Veg. Intake/Fruit Intake	<0.0001	<0.0001	3.E-18	4.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	6.E-17	<0.0001	1.E-15	1.E-11	2.E-15	9.E-19
Root Veg. Intake/Waste Concentration	<0.0001	<0.0001	3.E-18	2.E-18	2.E-19	<0.0001	<0.0001	1.E-20	1.E-20	6.E-17	<0.0001	7.E-16	3.E-11	2.E-15	5.E-19
Root Veg. Intake/Child Soil Intake	<0.0001	<0.0001	6.E-19	9.E-19	8.E-20	<0.0001	<0.0001	1.E-20	1.E-20	1.E-17	<0.0001	4.E-16	1.E-11	2.E-15	2.E-19
Root Veg. Intake/Met. Location	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	2.E-17	<0.0001	7.E-16	1.E-11	2.E-15	3.E-19
Root Veg. Intake/Distance to Receptor	<0.0001	<0.0001	3.E-18	4.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	6.E-17	<0.0001	2.E-15	4.E-11	7.E-15	9.E-19
Root Veg. Intake/Waste Volume	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	4.E-11	6.E-15	7.E-19
Fruit Intake/Waste Concentration	<0.0001	<0.0001	1.E-17	8.E-18	7.E-19	<0.0001	<0.0001	4.E-20	4.E-20	2.E-16	<0.0001	2.E-15	3.E-11	2.E-15	2.E-18
Fruit Intake/Child Soil Intake	<0.0001	<0.0001	3.E-18	3.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	5.E-17	<0.0001	1.E-15	1.E-11	2.E-15	9.E-19
Fruit Intake/Met. Location	<0.0001	<0.0001	4.E-18	6.E-18	5.E-19	<0.0001	<0.0001	5.E-20	6.E-20	9.E-17	<0.0001	3.E-15	1.E-11	2.E-15	1.E-18
Fruit Intake/Distance to Receptor	<0.0001	<0.0001	1.E-17	1.E-17	1.E-18	<0.0001	<0.0001	2.E-19	1.E-19	2.E-16	<0.0001	5.E-15	4.E-11	8.E-15	4.E-18
Fruit Intake/Waste Volume	<0.0001	<0.0001	8.E-18	1.E-17	9.E-19	<0.0001	<0.0001	1.E-19	1.E-19	2.E-16	<0.0001	5.E-15	4.E-11	6.E-15	3.E-18
Waste Concentration/ Child Soil Intake	<0.0001	<0.0001	2.E-18	2.E-18	2.E-19	<0.0001	<0.0001	1.E-20	1.E-20	5.E-17	<0.0001	6.E-16	3.E-11	2.E-15	5.E-19
Waste Concentration/Met. Location	<0.0001	<0.0001	4.E-18	3.E-18	3.E-19	<0.0001	<0.0001	1.E-20	2.E-20	9.E-17	<0.0001	1.E-15	4.E-11	2.E-15	7.E-19
Waste Concentration/Distance to Receptor	<0.0001	<0.0001	9.E-18	7.E-18	7.E-19	<0.0001	<0.0001	4.E-20	4.E-20	2.E-16	<0.0001	2.E-15	1.E-10	7.E-15	2.E-18
Waste Concentration/Waste Volume	<0.0001	<0.0001	8.E-18	6.E-18	6.E-19	<0.0001	<0.0001	3.E-20	4.E-20	2.E-16	<0.0001	2.E-15	1.E-10	6.E-15	2.E-18
Child Soil Intake/ Met. Location	<0.0001	<0.0001	1.E-18	2.E-18	1.E-19	<0.0001	<0.0001	1.E-20	2.E-20	2.E-17	<0.0001	7.E-16	1.E-11	2.E-15	3.E-19
Child Soil Intake/Distance to Receptor	<0.0001	<0.0001	2.E-18	3.E-18	3.E-19	<0.0001	<0.0001	4.E-20	4.E-20	5.E-17	<0.0001	1.E-15	4.E-11	7.E-15	8.E-19
Child Soil Intake/Waste Volume	<0.0001	<0.0001	2.E-18	3.E-18	2.E-19	<0.0001	<0.0001	3.E-20	3.E-20	5.E-17	<0.0001	1.E-15	4.E-11	6.E-15	7.E-19
Met. Location/Distance to Receptor	<0.0001	<0.0001	4.E-18	6.E-18	5.E-19	<0.0001	<0.0001	5.E-20	6.E-20	9.E-17	<0.0001	3.E-15	5.E-11	9.E-15	1.E-18
Met Location/Waste Volume	<0.0001	<0.0001	3.E-18	5.E-18	4.E-19	<0.0001	<0.0001	4.E-20	5.E-20	8.E-17	<0.0001	2.E-15	4.E-11	7.E-15	1.E-18
Distance to Receptor/Waste Volume	<0.0001	<0.0001	8.E-18	1.E-17	9.E-19	<0.0001	<0.0001	1.E-19	1.E-19	2.E-16	<0.0001	5.E-15	1.E-10	3.E-14	3.E-18

**Table H.3-1f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Child of Farmer  
(Risk Results Based on Dry Weight Waste Concentrations)**

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5,7,8, 9-	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6, 7,8,-	OCDF 1,2,3,4,6, 7,8,9-	HxCDF 1,2,3,4,7,8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1,2, 3,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2,3 4,6,7,8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
<b>Central Tendency</b>	2.E-14	3.E-14	5.E-14	8.E-15	3.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	3.E-13	4.E-13	1.E-13	3.E-12
<b>Single High End Parameter</b>																		
Exposure Duration	3.E-14	6.E-14	1.E-13	2.E-14	7.E-14	9.E-14	6.E-14	3.E-15	3.E-13	2.E-12	3.E-14	4.E-13	1.E-13	4.E-13	7.E-13	9.E-13	2.E-13	5.E-12
Beef Intake	4.E-14	8.E-14	1.E-13	2.E-14	7.E-14	9.E-14	7.E-14	3.E-15	3.E-13	2.E-12	4.E-14	4.E-13	1.E-13	4.E-13	8.E-13	1.E-12	2.E-13	6.E-12
Dairy Intake	2.E-14	4.E-14	8.E-14	1.E-14	5.E-14	6.E-14	5.E-14	3.E-15	3.E-13	1.E-12	3.E-14	3.E-13	9.E-14	3.E-13	5.E-13	7.E-13	2.E-13	4.E-12
Exposed Veg. Intake	2.E-14	3.E-14	5.E-14	8.E-15	3.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	4.E-13	4.E-13	1.E-13	3.E-12
Root Veg. Intake	2.E-14	3.E-14	5.E-14	8.E-15	3.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	3.E-13	4.E-13	1.E-13	3.E-12
Fruit Intake	2.E-14	3.E-14	5.E-14	9.E-15	4.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	4.E-13	4.E-13	1.E-13	3.E-12
Waste Concentration	5.E-12	2.E-13	1.E-12	6.E-14	1.E-12	2.E-13	2.E-12	5.E-13	1.E-11	2.E-11	3.E-15	2.E-12	2.E-12	4.E-12	8.E-12	1.E-11	9.E-13	7.E-11
Child Soil Intake	2.E-14	3.E-14	5.E-14	8.E-15	3.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	3.E-13	4.E-13	1.E-13	3.E-12
Meteorological Location	2.E-14	4.E-14	6.E-14	9.E-15	4.E-14	5.E-14	3.E-14	2.E-15	2.E-13	1.E-12	2.E-14	2.E-13	7.E-14	2.E-13	4.E-13	5.E-13	1.E-13	3.E-12
Distance to Receptor	6.E-14	1.E-13	2.E-13	3.E-14	1.E-13	2.E-13	1.E-13	6.E-15	6.E-13	3.E-12	7.E-14	7.E-13	2.E-13	7.E-13	1.E-12	2.E-12	4.E-13	1.E-11
Waste Volume	5.E-14	1.E-13	2.E-13	3.E-14	1.E-13	1.E-13	1.E-13	5.E-15	5.E-13	3.E-12	6.E-14	6.E-13	2.E-13	6.E-13	1.E-12	1.E-12	4.E-13	8.E-12
<b>Double High End Parameters</b>																		
Exposure Duration/Beef Intake	8.E-14	2.E-13	2.E-13	4.E-14	1.E-13	2.E-13	2.E-13	7.E-15	6.E-13	4.E-12	8.E-14	8.E-13	3.E-13	9.E-13	2.E-12	2.E-12	5.E-13	1.E-11
Exposure Duration/Dairy Intake	5.E-14	9.E-14	2.E-13	3.E-14	1.E-13	1.E-13	1.E-13	6.E-15	5.E-13	3.E-12	5.E-14	6.E-13	2.E-13	6.E-13	1.E-12	1.E-12	4.E-13	8.E-12
Exposure Duration/Exposed Veg. Intake	3.E-14	6.E-14	1.E-13	2.E-14	7.E-14	9.E-14	6.E-14	3.E-15	3.E-13	2.E-12	4.E-14	4.E-13	1.E-13	4.E-13	7.E-13	9.E-13	2.E-13	5.E-12
Exposure Duration/Root Veg. Intake	3.E-14	6.E-14	1.E-13	2.E-14	7.E-14	9.E-14	6.E-14	3.E-15	3.E-13	2.E-12	3.E-14	4.E-13	1.E-13	4.E-13	7.E-13	9.E-13	2.E-13	5.E-12
Exposure Duration/Fruit Intake	3.E-14	7.E-14	1.E-13	2.E-14	8.E-14	9.E-14	6.E-14	4.E-15	3.E-13	2.E-12	4.E-14	4.E-13	1.E-13	4.E-13	8.E-13	9.E-13	2.E-13	5.E-12
Exposure Duration/Waste Concentration	1.E-11	4.E-13	3.E-12	1.E-13	3.E-12	5.E-13	4.E-12	1.E-12	2.E-11	5.E-11	6.E-15	3.E-12	3.E-12	8.E-12	2.E-11	3.E-11	2.E-12	2.E-10
Exposure Duration/Child Soil Intake	3.E-14	6.E-14	1.E-13	2.E-14	7.E-14	9.E-14	6.E-14	3.E-15	3.E-13	2.E-12	3.E-14	4.E-13	1.E-13	4.E-13	7.E-13	9.E-13	2.E-13	5.E-12
Exposure Duration/Met. Location	4.E-14	7.E-14	1.E-13	2.E-14	8.E-14	1.E-13	7.E-14	4.E-15	4.E-13	2.E-12	4.E-14	4.E-13	2.E-13	4.E-13	8.E-13	1.E-12	3.E-13	6.E-12
Exposure Duration/Distance to Receptor	1.E-13	3.E-13	4.E-13	7.E-14	3.E-13	3.E-13	2.E-13	1.E-14	1.E-12	7.E-12	1.E-13	2.E-12	5.E-13	2.E-12	3.E-12	4.E-12	9.E-13	2.E-11
Exposure Duration/Waste Volume	1.E-13	2.E-13	3.E-13	6.E-14	2.E-13	3.E-13	2.E-13	1.E-14	1.E-12	6.E-12	1.E-13	1.E-12	4.E-13	1.E-12	2.E-12	3.E-12	7.E-13	2.E-11
Beef Intake/ Dairy Intake	5.E-14	9.E-14	1.E-13	2.E-14	9.E-14	1.E-13	9.E-14	4.E-15	4.E-13	2.E-12	5.E-14	5.E-13	2.E-13	5.E-13	1.E-12	1.E-12	3.E-13	7.E-12
Beef Intake/ Exposed Veg. Intake	4.E-14	8.E-14	1.E-13	2.E-14	7.E-14	9.E-14	7.E-14	3.E-15	3.E-13	2.E-12	4.E-14	4.E-13	1.E-13	4.E-13	8.E-13	1.E-12	2.E-13	6.E-12
Beef Intake/Root Vegetable Intake	4.E-14	8.E-14	1.E-13	2.E-14	7.E-14	9.E-14	7.E-14	3.E-15	3.E-13	2.E-12	4.E-14	4.E-13	1.E-13	4.E-13	8.E-13	1.E-12	2.E-13	6.E-12
Beef Intake/Fruit Intake	4.E-14	8.E-14	1.E-13	2.E-14	7.E-14	9.E-14	7.E-14	3.E-15	3.E-13	2.E-12	4.E-14	4.E-13	1.E-13	4.E-13	8.E-13	1.E-12	2.E-13	6.E-12
Beef Intake/Waste Concentration	1.E-11	5.E-13	3.E-12	1.E-13	3.E-12	5.E-13	5.E-12	9.E-13	2.E-11	5.E-11	7.E-15	3.E-12	4.E-12	9.E-12	2.E-11	3.E-11	2.E-12	2.E-10
Beef Intake/Child Soil Intake	4.E-14	8.E-14	1.E-13	2.E-14	7.E-14	9.E-14	7.E-14	3.E-15	3.E-13	2.E-12	4.E-14	4.E-13	1.E-13	4.E-13	8.E-13	1.E-12	2.E-13	6.E-12
Beef Intake/Met. Location	5.E-14	9.E-14	1.E-13	2.E-14	8.E-14	1.E-13	8.E-14	4.E-15	3.E-13	2.E-12	4.E-14	5.E-13	2.E-13	5.E-13	9.E-13	1.E-12	3.E-13	6.E-12
Beef Intake/Distance to Receptor	2.E-13	3.E-13	4.E-13	7.E-14	3.E-13	4.E-13	3.E-13	1.E-14	1.E-12	8.E-12	1.E-13	2.E-12	6.E-13	2.E-12	3.E-12	4.E-12	9.E-13	2.E-11
Beef Intake/Waste Volume	1.E-13	3.E-13	4.E-13	6.E-14	2.E-13	3.E-13	2.E-13	1.E-14	1.E-12	7.E-12	1.E-13	1.E-12	5.E-13	1.E-12	3.E-12	3.E-12	8.E-13	2.E-11
Dairy Intake/Exposed Vegetable Intake	2.E-14	4.E-14	8.E-14	1.E-14	5.E-14	6.E-14	5.E-14	3.E-15	3.E-13	1.E-12	3.E-14	3.E-13	9.E-14	3.E-13	5.E-13	7.E-13	2.E-13	4.E-12
Dairy Intake/Root Vegetable Intake	2.E-14	4.E-14	8.E-14	1.E-14	5.E-14	6.E-14	5.E-14	3.E-15	3.E-13	1.E-12	3.E-14	3.E-13	9.E-14	3.E-13	5.E-13	7.E-13	2.E-13	4.E-12
Dairy Intake/Fruit Intake	2.E-14	5.E-14	8.E-14	1.E-14	5.E-14	7.E-14	5.E-14	3.E-15	3.E-13	1.E-12	3.E-14	3.E-13	1.E-13	3.E-13	6.E-13	7.E-13	2.E-13	4.E-12
Dairy Intake/Waste Concentration	8.E-12	3.E-13	2.E-12	9.E-14	2.E-12	4.E-13	3.E-12	8.E-13	2.E-11	4.E-11	5.E-15	2.E-12	2.E-12	6.E-12	1.E-11	2.E-11	1.E-12	1.E-10
Dairy Intake/ Child Soil Intake	2.E-14	4.E-14	8.E-14	1.E-14	5.E-14	6.E-14	5.E-14	3.E-15	3.E-13	1.E-12	3.E-14	3.E-13	9.E-14	3.E-13	5.E-13	7.E-13	2.E-13	4.E-12
Dairy Intake/ Met. Location	3.E-14	5.E-14	9.E-14	1.E-14	6.E-14	7.E-14	5.E-14	3.E-15	3.E-13	2.E-12	3.E-14	3.E-13	1.E-13	3.E-13	6.E-13	8.E-13	2.E-13	4.E-12
Dairy Intake/Distance to Receptor	9.E-14	2.E-13	3.E-13	5.E-14	2.E-13	3.E-13	2.E-13	1.E-14	1.E-12	5.E-12	1.E-13	1.E-12	4.E-13	1.E-12	2.E-12	3.E-12	7.E-13	2.E-11
Dairy Intake/Waste Volume	8.E-14	1.E-13	3.E-13	4.E-14	2.E-13	2.E-13	2.E-13	9.E-15	9.E-13	4.E-12	9.E-14	9.E-13	3.E-13	9.E-13	2.E-12	2.E-12	6.E-13	1.E-11

**Table H.3-1f. Risk and Sensitivity Analysis Results for Ingestion Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Child of Farmer  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5,7,8, 9-	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6, 7,8,-	OCDF 1,2,3,4,6, 7,8,9-	HxCDD 1,2,3,4,7,8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1,2, 3,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2,3 ,4,6,7,8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
Exposed Veg. Intake/ Root Veg. Intake	2.E-14	3.E-14	5.E-14	8.E-15	3.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	4.E-13	4.E-13	1.E-13	3.E-12
Exposed Veg. Intake/ Fruit Intake	2.E-14	3.E-14	5.E-14	9.E-15	4.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	4.E-13	4.E-13	1.E-13	3.E-12
Exposed Veg. Intake/Waste Concentration	5.E-12	2.E-13	1.E-12	6.E-14	1.E-12	2.E-13	2.E-12	5.E-13	1.E-11	2.E-11	3.E-15	2.E-12	2.E-12	4.E-12	8.E-12	1.E-11	9.E-13	7.E-11
Exposed Veg. Intake/Child Soil Intake	2.E-14	3.E-14	5.E-14	8.E-15	3.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	4.E-13	4.E-13	1.E-13	3.E-12
Exposed Veg. Intake/Met. Location	2.E-14	4.E-14	6.E-14	9.E-15	4.E-14	5.E-14	3.E-14	2.E-15	2.E-13	1.E-12	2.E-14	2.E-13	7.E-14	2.E-13	4.E-13	5.E-13	1.E-13	3.E-12
Exposed Veg. Intake/Distance to Receptor	6.E-14	1.E-13	2.E-13	3.E-14	1.E-13	2.E-13	1.E-13	7.E-15	6.E-13	3.E-12	7.E-14	7.E-13	2.E-13	7.E-13	1.E-12	2.E-12	4.E-13	1.E-11
Exposed Veg. Intake/Waste Volume	5.E-14	1.E-13	2.E-13	3.E-14	1.E-13	1.E-13	1.E-13	5.E-15	5.E-13	3.E-12	6.E-14	6.E-13	2.E-13	6.E-13	1.E-12	1.E-12	4.E-13	8.E-12
Root Veg. Intake/Fruit Intake	2.E-14	3.E-14	5.E-14	9.E-15	4.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	4.E-13	4.E-13	1.E-13	3.E-12
Root Veg. Intake/Waste Concentration	5.E-12	2.E-13	1.E-12	6.E-14	1.E-12	2.E-13	2.E-12	5.E-13	1.E-11	2.E-11	3.E-15	2.E-12	2.E-12	4.E-12	8.E-12	1.E-11	9.E-13	7.E-11
Root Veg. Intake/Child Soil Intake	2.E-14	3.E-14	5.E-14	8.E-15	3.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	3.E-13	4.E-13	1.E-13	3.E-12
Root Veg. Intake/Met. Location	2.E-14	4.E-14	6.E-14	9.E-15	4.E-14	5.E-14	3.E-14	2.E-15	2.E-13	1.E-12	2.E-14	2.E-13	7.E-14	2.E-13	4.E-13	5.E-13	1.E-13	3.E-12
Root Veg. Intake/Distance to Receptor	6.E-14	1.E-13	2.E-13	3.E-14	1.E-13	2.E-13	1.E-13	6.E-15	6.E-13	3.E-12	7.E-14	7.E-13	2.E-13	7.E-13	1.E-12	2.E-12	4.E-13	1.E-11
Root Veg. Intake/Waste Volume	5.E-14	1.E-13	2.E-13	3.E-14	1.E-13	1.E-13	1.E-13	5.E-15	5.E-13	3.E-12	6.E-14	6.E-13	2.E-13	6.E-13	1.E-12	1.E-12	4.E-13	8.E-12
Fruit Intake/Waste Concentration	5.E-12	2.E-13	1.E-12	7.E-14	2.E-12	2.E-13	2.E-12	5.E-13	1.E-11	2.E-11	3.E-15	2.E-12	2.E-12	4.E-12	9.E-12	1.E-11	9.E-13	8.E-11
Fruit Intake/Child Soil Intake	2.E-14	3.E-14	5.E-14	1.E-14	4.E-14	4.E-14	3.E-14	2.E-15	2.E-13	9.E-13	2.E-14	2.E-13	6.E-14	2.E-13	4.E-13	4.E-13	1.E-13	3.E-12
Fruit Intake/Met. Location	2.E-14	4.E-14	6.E-14	1.E-14	4.E-14	5.E-14	3.E-14	2.E-15	2.E-13	1.E-12	2.E-14	2.E-13	7.E-14	2.E-13	5.E-13	5.E-13	1.E-13	3.E-12
Fruit Intake/Distance to Receptor	6.E-14	1.E-13	2.E-13	4.E-14	1.E-13	2.E-13	1.E-13	7.E-15	6.E-13	3.E-12	7.E-14	7.E-13	3.E-13	7.E-13	2.E-12	2.E-12	4.E-13	1.E-11
Fruit Intake/Waste Volume	5.E-14	1.E-13	2.E-13	3.E-14	1.E-13	1.E-13	1.E-13	6.E-15	5.E-13	3.E-12	6.E-14	6.E-13	2.E-13	6.E-13	1.E-12	1.E-12	4.E-13	9.E-12
Waste Concentration/ Child Soil Intake	5.E-12	2.E-13	1.E-12	6.E-14	1.E-12	2.E-13	2.E-12	5.E-13	1.E-11	2.E-11	3.E-15	2.E-12	2.E-12	4.E-12	8.E-12	1.E-11	9.E-13	7.E-11
Waste Concentration/Met. Location	6.E-12	2.E-13	1.E-12	7.E-14	2.E-12	3.E-13	2.E-12	6.E-13	1.E-11	3.E-11	3.E-15	2.E-12	2.E-12	4.E-12	9.E-12	2.E-11	1.E-12	8.E-11
Waste Concentration/Distance to Receptor	2.E-11	8.E-13	5.E-12	3.E-13	6.E-12	9.E-13	8.E-12	2.E-12	5.E-11	9.E-11	1.E-14	6.E-12	6.E-12	1.E-11	3.E-11	5.E-11	4.E-12	3.E-10
Waste Concentration/Waste Volume	2.E-11	7.E-13	4.E-12	2.E-13	5.E-12	8.E-13	7.E-12	2.E-12	4.E-11	8.E-11	1.E-14	5.E-12	5.E-12	1.E-11	3.E-11	4.E-11	3.E-12	2.E-10
Child Soil Intake/ Met. Location	2.E-14	4.E-14	6.E-14	9.E-15	4.E-14	5.E-14	3.E-14	2.E-15	2.E-13	1.E-12	2.E-14	2.E-13	7.E-14	2.E-13	4.E-13	5.E-13	1.E-13	3.E-12
Child Soil Intake/Distance to Receptor	6.E-14	1.E-13	2.E-13	3.E-14	1.E-13	2.E-13	1.E-13	7.E-15	6.E-13	3.E-12	7.E-14	7.E-13	2.E-13	7.E-13	1.E-12	2.E-12	4.E-13	1.E-11
Child Soil Intake/Waste Volume	5.E-14	1.E-13	2.E-13	3.E-14	1.E-13	1.E-13	1.E-13	5.E-15	5.E-13	3.E-12	6.E-14	6.E-13	2.E-13	6.E-13	1.E-12	1.E-12	4.E-13	8.E-12
Met. Location/Distance to Receptor	8.E-14	1.E-13	2.E-13	4.E-14	2.E-13	2.E-13	1.E-13	8.E-15	7.E-13	4.E-12	8.E-14	8.E-13	3.E-13	8.E-13	2.E-12	2.E-12	5.E-13	1.E-11
Met Location/Waste Volume	6.E-14	1.E-13	2.E-13	3.E-14	1.E-13	2.E-13	1.E-13	6.E-15	6.E-13	3.E-12	6.E-14	7.E-13	2.E-13	7.E-13	1.E-12	2.E-12	4.E-13	9.E-12
Distance to Receptor/Waste Volume	2.E-13	4.E-13	6.E-13	1.E-13	4.E-13	5.E-13	4.E-13	2.E-14	2.E-12	1.E-11	2.E-13	2.E-12	8.E-13	2.E-12	5.E-12	6.E-12	1.E-12	3.E-11



**Table H.3-2a. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic),  
Adult Resident, Gardener, and Fisher  
(Based on Dry Weight Concentrations)**

6/25/99

High End Parameter(s)	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Hexachlorobenzene	Tetrachloroethylene
Central Tendency	2.E-12	6.E-13	8.E-15	<0.0001	<0.0001	9.E-16	<0.0001	2.E-12	<0.0001	1.E-12	8.E-15	3.E-15
Single High End Parameter												
Exposure Duration	8.E-12	2.E-12	3.E-14	<0.0001	<0.0001	3.E-15	<0.0001	8.E-12	<0.0001	4.E-12	3.E-14	9.E-15
Waste Concentration	1.E-11	1.E-12	2.E-14	<0.0001	<0.0001	9.E-16	<0.0001	9.E-12	<0.0001	2.E-12	8.E-15	6.E-15
Meteorological Location	3.E-12	7.E-13	9.E-15	<0.0001	<0.0001	1.E-15	<0.0001	3.E-12	<0.0001	2.E-12	1.E-14	3.E-15
Distance to Receptor	1.E-11	2.E-12	3.E-14	<0.0001	<0.0001	3.E-15	<0.0001	9.E-12	<0.0001	5.E-12	3.E-14	1.E-14
Waste Volume	8.E-12	2.E-12	3.E-14	<0.0001	<0.0001	3.E-15	<0.0001	8.E-12	<0.0001	5.E-12	3.E-14	9.E-15
Inhalation Rate	4.E-12	9.E-13	1.E-14	<0.0001	<0.0001	1.E-15	<0.0001	3.E-12	<0.0001	2.E-12	1.E-14	4.E-15
Double High End Parameters												
Exposure Duration/Waste Concentration	3.E-11	4.E-12	7.E-14	<0.0001	<0.0001	3.E-15	<0.0001	3.E-11	<0.0001	8.E-12	3.E-14	2.E-14
Exposure Duration/Met. Location	9.E-12	2.E-12	3.E-14	<0.0001	<0.0001	3.E-15	<0.0001	9.E-12	<0.0001	5.E-12	3.E-14	1.E-14
Exposure Duration/Distance to Receptor	3.E-11	8.E-12	1.E-13	<0.0001	<0.0001	1.E-14	<0.0001	3.E-11	<0.0001	2.E-11	1.E-13	4.E-14
Exposure Duration/Waste Volume	3.E-11	7.E-12	9.E-14	<0.0001	<0.0001	9.E-15	<0.0001	3.E-11	<0.0001	1.E-11	9.E-14	3.E-14
Exposure Duration/Inhalation Rate	1.E-11	3.E-12	4.E-14	<0.0001	<0.0001	4.E-15	<0.0001	1.E-11	<0.0001	6.E-12	4.E-14	1.E-14
Waste Concentration/Met. Location	1.E-11	2.E-12	2.E-14	<0.0001	<0.0001	1.E-15	<0.0001	1.E-11	<0.0001	3.E-12	1.E-14	7.E-15
Waste Concentration/Distance to Receptor	4.E-11	5.E-12	8.E-14	<0.0001	<0.0001	3.E-15	<0.0001	4.E-11	<0.0001	1.E-11	3.E-14	3.E-14
Waste Concentration/Waste Volume	3.E-11	4.E-12	7.E-14	<0.0001	<0.0001	3.E-15	<0.0001	3.E-11	<0.0001	8.E-12	3.E-14	2.E-14
Waste Concentration/Inhalation Rate	1.E-11	2.E-12	3.E-14	<0.0001	<0.0001	1.E-15	<0.0001	1.E-11	<0.0001	4.E-12	1.E-14	9.E-15
Met. Location/Distance to Receptor	1.E-11	3.E-12	4.E-14	<0.0001	<0.0001	4.E-15	<0.0001	1.E-11	<0.0001	7.E-12	4.E-14	1.E-14
Met Location/Waste Volume	1.E-11	2.E-12	3.E-14	<0.0001	<0.0001	3.E-15	<0.0001	9.E-12	<0.0001	6.E-12	3.E-14	1.E-14
Met Location/Inhalation Rate	4.E-12	1.E-12	1.E-14	<0.0001	<0.0001	1.E-15	<0.0001	4.E-12	<0.0001	2.E-12	1.E-14	5.E-15
Distance to Receptor/Waste Volume	3.E-11	8.E-12	1.E-13	<0.0001	<0.0001	1.E-14	<0.0001	3.E-11	<0.0001	2.E-11	1.E-13	4.E-14
Distance to Receptor/Inhalation Rate	1.E-11	4.E-12	5.E-14	<0.0001	<0.0001	5.E-15	<0.0001	1.E-11	<0.0001	8.E-12	5.E-14	2.E-14
Waste Volume/Inhalation Rate	1.E-11	3.E-12	4.E-14	<0.0001	<0.0001	4.E-15	<0.0001	1.E-11	<0.0001	7.E-12	4.E-14	1.E-14



**Table H.3-2a. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic),  
Adult Resident, Gardener, and Fisher  
(Based on Dry Weight Concentrations)**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5,7, 8,9-	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6,7,8,-	OCDF 1,2,3,4,6,7, 8,9-	HxCDD 1,2,3,4,7,8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1,2 ,3,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2, 3,4,6,7,8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
Central Tendency	1.E-16	1.E-17	8.E-17	9.E-17	1.E-16	7.E-17	1.E-16	4.E-17	6.E-16	9.E-16	8.E-17	9.E-16	1.E-16	1.E-15	3.E-15	2.E-15	5.E-16	9.E-15
Single High End Parameter																		
Exposure Duration	3.E-16	4.E-17	3.E-16	3.E-16	4.E-16	2.E-16	3.E-16	1.E-16	2.E-15	3.E-15	3.E-16	3.E-15	4.E-16	3.E-15	1.E-14	6.E-15	2.E-15	3.E-14
Waste Concentration	3.E-14	8.E-17	2.E-15	7.E-16	5.E-15	4.E-16	7.E-15	1.E-14	5.E-14	2.E-14	1.E-17	7.E-15	3.E-15	2.E-14	7.E-14	5.E-14	4.E-15	3.E-13
Meteorological Location	1.E-16	1.E-17	9.E-17	1.E-16	1.E-16	8.E-17	1.E-16	4.E-17	7.E-16	1.E-15	9.E-17	1.E-15	1.E-16	1.E-15	4.E-15	2.E-15	6.E-16	1.E-14
Distance to Receptor	4.E-16	5.E-17	3.E-16	4.E-16	4.E-16	3.E-16	4.E-16	1.E-16	2.E-15	4.E-15	3.E-16	3.E-15	4.E-16	4.E-15	1.E-14	7.E-15	2.E-15	4.E-14
Waste Volume	3.E-16	4.E-17	3.E-16	3.E-16	4.E-16	2.E-16	3.E-16	1.E-16	2.E-15	3.E-15	3.E-16	3.E-15	4.E-16	3.E-15	1.E-14	6.E-15	2.E-15	3.E-14
Inhalation Rate	1.E-16	2.E-17	1.E-16	1.E-16	2.E-16	1.E-16	1.E-16	5.E-17	9.E-16	1.E-15	1.E-16	1.E-15	2.E-16	1.E-15	5.E-15	2.E-15	8.E-16	1.E-14
Double High End Parameters																		
Exposure Duration/Waste Concentration	1.E-13	3.E-16	7.E-15	2.E-15	2.E-14	1.E-15	2.E-14	3.E-14	2.E-13	8.E-14	5.E-17	2.E-14	9.E-15	7.E-14	2.E-13	2.E-13	1.E-14	1.E-12
Exposure Duration/Met. Location	4.E-16	5.E-17	3.E-16	4.E-16	4.E-16	3.E-16	4.E-16	1.E-16	2.E-15	3.E-15	3.E-16	3.E-15	4.E-16	4.E-15	1.E-14	7.E-15	2.E-15	4.E-14
Exposure Duration/Distance to Receptor	1.E-15	2.E-16	1.E-15	1.E-15	1.E-15	9.E-16	1.E-15	5.E-16	8.E-15	1.E-14	1.E-15	1.E-14	1.E-15	1.E-14	4.E-14	2.E-14	7.E-15	1.E-13
Exposure Duration/Waste Volume	1.E-15	1.E-16	9.E-16	1.E-15	1.E-15	8.E-16	1.E-15	4.E-16	7.E-15	1.E-14	9.E-16	1.E-14	1.E-15	1.E-14	3.E-14	2.E-14	6.E-15	1.E-13
Exposure Duration/Inhalation Rate	5.E-16	6.E-17	4.E-16	4.E-16	5.E-16	3.E-16	5.E-16	2.E-16	3.E-15	4.E-15	4.E-16	4.E-15	5.E-16	5.E-15	2.E-14	8.E-15	3.E-15	5.E-14
Waste Concentration/Met. Location	4.E-14	1.E-16	2.E-15	8.E-16	6.E-15	4.E-16	8.E-15	1.E-14	5.E-14	3.E-14	2.E-17	8.E-15	3.E-15	2.E-14	8.E-14	6.E-14	5.E-15	3.E-13
Waste Concentration/Distance to Receptor	1.E-13	3.E-16	8.E-15	3.E-15	2.E-14	2.E-15	3.E-14	4.E-14	2.E-13	1.E-13	6.E-17	3.E-14	1.E-14	8.E-14	3.E-13	2.E-13	2.E-14	1.E-12
Waste Concentration/Waste Volume	1.E-13	3.E-16	7.E-15	2.E-15	2.E-14	1.E-15	2.E-14	3.E-14	2.E-13	8.E-14	5.E-17	2.E-14	9.E-15	7.E-14	2.E-13	2.E-13	1.E-14	1.E-12
Waste Concentration/Inhalation Rate	5.E-14	1.E-16	3.E-15	1.E-15	7.E-15	6.E-16	1.E-14	2.E-14	7.E-14	4.E-14	2.E-17	1.E-14	4.E-15	3.E-14	1.E-13	8.E-14	6.E-15	4.E-13
Met. Location/Distance to Receptor	5.E-16	6.E-17	4.E-16	4.E-16	5.E-16	3.E-16	5.E-16	2.E-16	3.E-15	4.E-15	4.E-16	4.E-15	5.E-16	5.E-15	1.E-14	8.E-15	2.E-15	4.E-14
Met Location/Waste Volume	4.E-16	5.E-17	3.E-16	4.E-16	4.E-16	3.E-16	4.E-16	1.E-16	2.E-15	3.E-15	3.E-16	3.E-15	4.E-16	4.E-15	1.E-14	7.E-15	2.E-15	4.E-14
Met Location/Inhalation Rate	2.E-16	2.E-17	1.E-16	2.E-16	2.E-16	1.E-16	2.E-16	6.E-17	1.E-15	2.E-15	1.E-16	1.E-15	2.E-16	2.E-15	5.E-15	3.E-15	9.E-16	2.E-14
Distance to Receptor/Waste Volume	1.E-15	2.E-16	1.E-15	1.E-15	1.E-15	9.E-16	1.E-15	5.E-16	8.E-15	1.E-14	1.E-15	1.E-14	1.E-15	1.E-14	4.E-14	2.E-14	7.E-15	1.E-13
Distance to Receptor/Inhalation Rate	6.E-16	7.E-17	5.E-16	5.E-16	6.E-16	4.E-16	6.E-16	2.E-16	4.E-15	5.E-15	5.E-16	5.E-15	6.E-16	6.E-15	2.E-14	1.E-14	3.E-15	5.E-14
Waste Volume/Inhalation Rate	5.E-16	6.E-17	4.E-16	4.E-16	5.E-16	3.E-16	5.E-16	2.E-16	3.E-15	4.E-15	4.E-16	4.E-15	5.E-16	5.E-15	2.E-14	8.E-15	3.E-15	5.E-14

**Table H.3-2b. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Farmer  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Hexachlorobenzene	Tetrachloroethylene
<b>Central Tendency</b>	3.E-12	7.E-13	9.E-15	<0.0001	<0.0001	1.E-15	<0.0001	3.E-12	<0.0001	2.E-12	9.E-15	3.E-15
<b>Single High End Parameter</b>												
Exposure Duration	1.E-11	3.E-12	4.E-14	<0.0001	<0.0001	5.E-15	<0.0001	1.E-11	<0.0001	7.E-12	4.E-14	1.E-14
Waste Concentration	1.E-11	1.E-12	2.E-14	<0.0001	<0.0001	1.E-15	<0.0001	1.E-11	<0.0001	3.E-12	9.E-15	7.E-15
Meteorological Location	3.E-12	8.E-13	1.E-14	<0.0001	<0.0001	1.E-15	<0.0001	3.E-12	<0.0001	2.E-12	1.E-14	3.E-15
Distance to Receptor	1.E-11	3.E-12	3.E-14	<0.0001	<0.0001	4.E-15	<0.0001	1.E-11	<0.0001	6.E-12	4.E-14	1.E-14
Waste Volume	9.E-12	2.E-12	3.E-14	<0.0001	<0.0001	3.E-15	<0.0001	8.E-12	<0.0001	5.E-12	3.E-14	1.E-14
Inhalation Rate	4.E-12	1.E-12	1.E-14	<0.0001	<0.0001	1.E-15	<0.0001	4.E-12	<0.0001	2.E-12	1.E-14	4.E-15
<b>Double High End Parameters</b>												
Exposure Duration/Waste Concentration	5.E-11	7.E-12	1.E-13	<0.0001	<0.0001	5.E-15	<0.0001	5.E-11	<0.0001	1.E-11	4.E-14	3.E-14
Exposure Duration/Met. Location	2.E-11	4.E-12	5.E-14	<0.0001	<0.0001	5.E-15	<0.0001	1.E-11	<0.0001	8.E-12	5.E-14	2.E-14
Exposure Duration/Distance to Receptor	5.E-11	1.E-11	2.E-13	<0.0001	<0.0001	2.E-14	<0.0001	5.E-11	<0.0001	3.E-11	2.E-13	6.E-14
Exposure Duration/Waste Volume	4.E-11	1.E-11	1.E-13	<0.0001	<0.0001	2.E-14	<0.0001	4.E-11	<0.0001	2.E-11	1.E-13	5.E-14
Exposure Duration/Inhalation Rate	2.E-11	5.E-12	6.E-14	<0.0001	<0.0001	7.E-15	<0.0001	2.E-11	<0.0001	1.E-11	7.E-14	2.E-14
Waste Concentration/Met. Location	1.E-11	2.E-12	3.E-14	<0.0001	<0.0001	1.E-15	<0.0001	1.E-11	<0.0001	3.E-12	1.E-14	8.E-15
Waste Concentration/Distance to Receptor	4.E-11	6.E-12	9.E-14	<0.0001	<0.0001	4.E-15	<0.0001	4.E-11	<0.0001	1.E-11	4.E-14	3.E-14
Waste Concentration/Waste Volume	4.E-11	5.E-12	7.E-14	<0.0001	<0.0001	3.E-15	<0.0001	3.E-11	<0.0001	9.E-12	3.E-14	2.E-14
Waste Concentration/Inhalation Rate	2.E-11	2.E-12	3.E-14	<0.0001	<0.0001	1.E-15	<0.0001	1.E-11	<0.0001	4.E-12	1.E-14	1.E-14
Met. Location/Distance to Receptor	1.E-11	3.E-12	4.E-14	<0.0001	<0.0001	5.E-15	<0.0001	1.E-11	<0.0001	8.E-12	4.E-14	1.E-14
Met Location/Waste Volume	1.E-11	3.E-12	3.E-14	<0.0001	<0.0001	4.E-15	<0.0001	1.E-11	<0.0001	6.E-12	4.E-14	1.E-14
Met Location/Inhalation Rate	5.E-12	1.E-12	1.E-14	<0.0001	<0.0001	2.E-15	<0.0001	4.E-12	<0.0001	3.E-12	2.E-14	5.E-15
Distance to Receptor/Waste Volume	4.E-11	9.E-12	1.E-13	<0.0001	<0.0001	1.E-14	<0.0001	3.E-11	<0.0001	2.E-11	1.E-13	4.E-14
Distance to Receptor/Inhalation Rate	2.E-11	4.E-12	5.E-14	<0.0001	<0.0001	6.E-15	<0.0001	1.E-11	<0.0001	9.E-12	5.E-14	2.E-14
Waste Volume/Inhalation Rate	1.E-11	3.E-12	4.E-14	<0.0001	<0.0001	5.E-15	<0.0001	1.E-11	<0.0001	8.E-12	5.E-14	1.E-14

**Table H.3-2b. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic), Farmer  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5,7,8,9	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6,7,8,-	OCDF 1,2,3,4,6,7, 8,9-	HxCDD 1,2,3,4,7,8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1,2 3,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2, 3,4,6,7,8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
Central Tendency	1.E-16	1.E-17	9.E-17	1.E-16	1.E-16	8.E-17	1.E-16	4.E-17	7.E-16	1.E-15	9.E-17	1.E-15	1.E-16	1.E-15	3.E-15	2.E-15	6.E-16	1.E-14
Single High End Parameter																		
Exposure Duration	5.E-16	7.E-17	4.E-16	5.E-16	6.E-16	4.E-16	5.E-16	2.E-16	3.E-15	5.E-15	4.E-16	5.E-15	6.E-16	5.E-15	2.E-14	9.E-15	3.E-15	5.E-14
Waste Concentration	4.E-14	9.E-17	2.E-15	8.E-16	5.E-15	4.E-16	7.E-15	1.E-14	5.E-14	3.E-14	2.E-17	8.E-15	3.E-15	2.E-14	8.E-14	6.E-14	5.E-15	3.E-13
Meteorological Location	1.E-16	2.E-17	1.E-16	1.E-16	1.E-16	9.E-17	1.E-16	5.E-17	8.E-16	1.E-15	1.E-16	1.E-15	1.E-16	1.E-15	4.E-15	2.E-15	7.E-16	1.E-14
Distance to Receptor	4.E-16	5.E-17	4.E-16	4.E-16	5.E-16	3.E-16	4.E-16	2.E-16	3.E-15	4.E-15	4.E-16	4.E-15	5.E-16	4.E-15	1.E-14	7.E-15	2.E-15	4.E-14
Waste Volume	4.E-16	5.E-17	3.E-16	3.E-16	4.E-16	3.E-16	4.E-16	1.E-16	2.E-15	3.E-15	3.E-16	3.E-15	4.E-16	4.E-15	1.E-14	6.E-15	2.E-15	3.E-14
Inhalation Rate	2.E-16	2.E-17	1.E-16	1.E-16	2.E-16	1.E-16	2.E-16	6.E-17	1.E-15	1.E-15	1.E-16	1.E-15	2.E-16	2.E-15	5.E-15	3.E-15	8.E-16	2.E-14
Double High End Parameters																		
Exposure Duration/Waste Concentration	2.E-13	4.E-16	1.E-14	4.E-15	3.E-14	2.E-15	4.E-14	6.E-14	2.E-13	1.E-13	8.E-17	4.E-14	1.E-14	1.E-13	4.E-13	3.E-13	2.E-14	2.E-12
Exposure Duration/Met. Location	6.E-16	8.E-17	5.E-16	6.E-16	7.E-16	4.E-16	6.E-16	2.E-16	4.E-15	6.E-15	5.E-16	5.E-15	7.E-16	6.E-15	2.E-14	1.E-14	3.E-15	6.E-14
Exposure Duration/Distance to Receptor	2.E-15	3.E-16	2.E-15	2.E-15	2.E-15	1.E-15	2.E-15	8.E-16	1.E-14	2.E-14	2.E-15	2.E-14	2.E-15	2.E-14	7.E-14	4.E-14	1.E-14	2.E-13
Exposure Duration/Waste Volume	2.E-15	2.E-16	1.E-15	2.E-15	2.E-15	1.E-15	2.E-15	6.E-16	1.E-14	2.E-14	1.E-15	2.E-14	2.E-15	2.E-14	6.E-14	3.E-14	9.E-15	2.E-13
Exposure Duration/Inhalation Rate	8.E-16	1.E-16	6.E-16	7.E-16	8.E-16	5.E-16	8.E-16	3.E-16	5.E-15	7.E-15	6.E-16	7.E-15	9.E-16	8.E-15	2.E-14	1.E-14	4.E-15	7.E-14
Waste Concentration/Met. Location	4.E-14	1.E-16	3.E-15	9.E-16	6.E-15	5.E-16	9.E-15	1.E-14	6.E-14	3.E-14	2.E-17	9.E-15	4.E-15	3.E-14	9.E-14	7.E-14	6.E-15	4.E-13
Waste Concentration/Distance to Receptor	1.E-13	4.E-16	9.E-15	3.E-15	2.E-14	2.E-15	3.E-14	5.E-14	2.E-13	1.E-13	6.E-17	3.E-14	1.E-14	9.E-14	3.E-13	2.E-13	2.E-14	1.E-12
Waste Concentration/Waste Volume	1.E-13	3.E-16	8.E-15	3.E-15	2.E-14	1.E-15	2.E-14	4.E-14	2.E-13	9.E-14	5.E-17	3.E-14	1.E-14	7.E-14	3.E-13	2.E-13	2.E-14	1.E-12
Waste Concentration/Inhalation Rate	5.E-14	1.E-16	3.E-15	1.E-15	8.E-15	6.E-16	1.E-14	2.E-14	7.E-14	4.E-14	2.E-17	1.E-14	4.E-15	3.E-14	1.E-13	8.E-14	7.E-15	5.E-13
Met. Location/Distance to Receptor	5.E-16	6.E-17	4.E-16	5.E-16	6.E-16	4.E-16	5.E-16	2.E-16	3.E-15	5.E-15	4.E-16	5.E-15	6.E-16	5.E-15	2.E-14	9.E-15	3.E-15	5.E-14
Met Location/Waste Volume	4.E-16	5.E-17	3.E-16	4.E-16	5.E-16	3.E-16	4.E-16	2.E-16	3.E-15	4.E-15	3.E-16	4.E-15	5.E-16	4.E-15	1.E-14	7.E-15	2.E-15	4.E-14
Met Location/Inhalation Rate	2.E-16	2.E-17	2.E-16	2.E-16	2.E-16	1.E-16	2.E-16	7.E-17	1.E-15	2.E-15	2.E-16	2.E-15	2.E-16	2.E-15	6.E-15	3.E-15	1.E-15	2.E-14
Distance to Receptor/Waste Volume	1.E-15	2.E-16	1.E-15	1.E-15	2.E-15	1.E-15	1.E-15	5.E-16	9.E-15	1.E-14	1.E-15	1.E-14	2.E-15	1.E-14	5.E-14	2.E-14	8.E-15	1.E-13
Distance to Receptor/Inhalation Rate	6.E-16	8.E-17	5.E-16	6.E-16	7.E-16	4.E-16	6.E-16	2.E-16	4.E-15	6.E-15	5.E-16	6.E-15	7.E-16	6.E-15	2.E-14	1.E-14	3.E-15	6.E-14
Waste Volume/Inhalation Rate	5.E-16	7.E-17	4.E-16	5.E-16	6.E-16	4.E-16	5.E-16	2.E-16	3.E-15	5.E-15	4.E-16	5.E-15	6.E-16	5.E-15	2.E-14	9.E-15	3.E-15	5.E-14

**Table H.3-2c. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic),  
Child of Resident and Child of Farmer  
(Based on Dry Weight Concentrations)**

6/25/99

High End Parameter(s)	Chloroform	Vinyl chloride	Methylene chloride	Carbon disulfide	Methyl ethyl ketone	Trichloroethylene	Allyl chloride	Dichloroethane, 1,2-	Vinyl acetate	Bis(2-chlorethyl) ether	Hexachlorobenzene	Tetrachloroethylene
<b>Central Tendency</b>	3.E-12	7.E-13	9.E-15	<0.0001	<0.0001	1.E-15	<0.0001	3.E-12	<0.0001	2.E-12	9.E-15	3.E-15
<b>Single High End Parameter</b>												
Exposure Duration	6.E-12	1.E-12	2.E-14	<0.0001	<0.0001	2.E-15	<0.0001	5.E-12	<0.0001	3.E-12	2.E-14	6.E-15
Waste Concentration	1.E-11	1.E-12	2.E-14	<0.0001	<0.0001	1.E-15	<0.0001	1.E-11	<0.0001	3.E-12	9.E-15	7.E-15
Meteorological Location	3.E-12	8.E-13	1.E-14	<0.0001	<0.0001	1.E-15	<0.0001	3.E-12	<0.0001	2.E-12	1.E-14	3.E-15
Distance to Receptor	1.E-11	3.E-12	3.E-14	<0.0001	<0.0001	4.E-15	<0.0001	1.E-11	<0.0001	6.E-12	4.E-14	1.E-14
Waste Volume	9.E-12	2.E-12	3.E-14	<0.0001	<0.0001	3.E-15	<0.0001	8.E-12	<0.0001	5.E-12	3.E-14	1.E-14
Inhalation Rate	5.E-12	1.E-12	2.E-14	<0.0001	<0.0001	2.E-15	<0.0001	4.E-12	<0.0001	3.E-12	2.E-14	5.E-15
<b>Double High End Parameters</b>												
Exposure Duration/Waste Concentration	2.E-11	3.E-12	5.E-14	<0.0001	<0.0001	2.E-15	<0.0001	2.E-11	<0.0001	5.E-12	2.E-14	1.E-14
Exposure Duration/Met. Location	7.E-12	2.E-12	2.E-14	<0.0001	<0.0001	2.E-15	<0.0001	6.E-12	<0.0001	4.E-12	2.E-14	7.E-15
Exposure Duration/Distance to Receptor	2.E-11	6.E-12	7.E-14	<0.0001	<0.0001	8.E-15	<0.0001	2.E-11	<0.0001	1.E-11	8.E-14	2.E-14
Exposure Duration/Waste Volume	2.E-11	5.E-12	6.E-14	<0.0001	<0.0001	7.E-15	<0.0001	2.E-11	<0.0001	1.E-11	6.E-14	2.E-14
Exposure Duration/Inhalation Rate	1.E-11	2.E-12	3.E-14	<0.0001	<0.0001	3.E-15	<0.0001	9.E-12	<0.0001	5.E-12	3.E-14	1.E-14
Waste Concentration/Met. Location	1.E-11	2.E-12	3.E-14	<0.0001	<0.0001	1.E-15	<0.0001	1.E-11	<0.0001	3.E-12	1.E-14	8.E-15
Waste Concentration/Distance to Receptor	4.E-11	6.E-12	9.E-14	<0.0001	<0.0001	4.E-15	<0.0001	4.E-11	<0.0001	1.E-11	4.E-14	3.E-14
Waste Concentration/Waste Volume	4.E-11	5.E-12	7.E-14	<0.0001	<0.0001	3.E-15	<0.0001	3.E-11	<0.0001	9.E-12	3.E-14	2.E-14
Waste Concentration/Inhalation Rate	2.E-11	3.E-12	4.E-14	<0.0001	<0.0001	2.E-15	<0.0001	2.E-11	<0.0001	5.E-12	2.E-14	1.E-14
Met. Location/Distance to Receptor	1.E-11	3.E-12	4.E-14	<0.0001	<0.0001	4.E-15	<0.0001	1.E-11	<0.0001	7.E-12	4.E-14	1.E-14
Met Location/Waste Volume	1.E-11	3.E-12	3.E-14	<0.0001	<0.0001	4.E-15	<0.0001	1.E-11	<0.0001	6.E-12	4.E-14	1.E-14
Met Location/Inhalation Rate	6.E-12	1.E-12	2.E-14	<0.0001	<0.0001	2.E-15	<0.0001	5.E-12	<0.0001	3.E-12	2.E-14	6.E-15
Distance to Receptor/Waste Volume	4.E-11	9.E-12	1.E-13	<0.0001	<0.0001	1.E-14	<0.0001	3.E-11	<0.0001	2.E-11	1.E-13	4.E-14
Distance to Receptor/Inhalation Rate	2.E-11	5.E-12	6.E-14	<0.0001	<0.0001	7.E-15	<0.0001	2.E-11	<0.0001	1.E-11	6.E-14	2.E-14
Waste Volume/Inhalation Rate	2.E-11	4.E-12	5.E-14	<0.0001	<0.0001	6.E-15	<0.0001	1.E-11	<0.0001	9.E-12	5.E-14	2.E-14

**Table H.3-2c. Risk and Sensitivity Analysis Results for Inhalation Exposure (EDC/VCM Landfill, Non-Groundwater Deterministic),  
Child of Resident and Child of Farmer  
(Based on Dry Weight Concentrations)**

6/25/99

High End Parameter(s)	TCDD, 2,3,7,8-	OCDD 1,2,3,4,5,7, 8,9-	HxCDD 1,2,3,7,8,9-	HpCDD 1,2,3,4,6,7,8,-	OCDF 1,2,3,4,6,7,8, 9-	HxCDD 1,2,3,4,7,8-	PeCDD 1,2,3,7,8-	TCDF 2,3,7,8-	HpCDF1,2 ,3,4,7,8,9-	PeCDF 2,3,4,7,8-	PeCDF 1,2,3,7,8-	HxCDF 1,2,3,6,7,8-	HxCDD 1,2,3,6,7,8-	HxCDF 2,3,4,6,7,8-	HpCDF1,2, 3,4,6,7,8-	HxCDF 1,2,3,4,7,8-	HxCDF 1,2,3,7,8,9-	TEQ
Central Tendency	1.E-16	1.E-17	9.E-17	1.E-16	1.E-16	7.E-17	1.E-16	4.E-17	7.E-16	1.E-15	9.E-17	1.E-15	1.E-16	1.E-15	3.E-15	2.E-15	6.E-16	1.E-14
Single High End Parameter																		
Exposure Duration	2.E-16	3.E-17	2.E-16	2.E-16	2.E-16	2.E-16	2.E-16	8.E-17	1.E-15	2.E-15	2.E-16	2.E-15	3.E-16	2.E-15	7.E-15	4.E-15	1.E-15	2.E-14
Waste Concentration	4.E-14	9.E-17	2.E-15	8.E-16	5.E-15	4.E-16	7.E-15	1.E-14	5.E-14	3.E-14	2.E-17	8.E-15	3.E-15	2.E-14	8.E-14	6.E-14	5.E-15	3.E-13
Meteorological Location	1.E-16	2.E-17	1.E-16	1.E-16	1.E-16	9.E-17	1.E-16	4.E-17	8.E-16	1.E-15	1.E-16	1.E-15	1.E-16	1.E-15	4.E-15	2.E-15	7.E-16	1.E-14
Distance to Receptor	4.E-16	5.E-17	4.E-16	4.E-16	5.E-16	3.E-16	4.E-16	2.E-16	3.E-15	4.E-15	3.E-16	4.E-15	5.E-16	4.E-15	1.E-14	7.E-15	2.E-15	4.E-14
Waste Volume	4.E-16	4.E-17	3.E-16	3.E-16	4.E-16	2.E-16	4.E-16	1.E-16	2.E-15	3.E-15	3.E-16	3.E-15	4.E-16	4.E-15	1.E-14	6.E-15	2.E-15	3.E-14
Inhalation Rate	2.E-16	2.E-17	2.E-16	2.E-16	2.E-16	1.E-16	2.E-16	7.E-17	1.E-15	2.E-15	2.E-16	2.E-15	2.E-16	2.E-15	6.E-15	3.E-15	1.E-15	2.E-14
Double High End Parameters																		
Exposure Duration/Waste Concentration	8.E-14	2.E-16	5.E-15	2.E-15	1.E-14	9.E-16	2.E-14	2.E-14	1.E-13	6.E-14	3.E-17	2.E-14	6.E-15	5.E-14	2.E-13	1.E-13	1.E-14	7.E-13
Exposure Duration/Met. Location	3.E-16	3.E-17	2.E-16	2.E-16	3.E-16	2.E-16	3.E-16	9.E-17	2.E-15	2.E-15	2.E-16	2.E-15	3.E-16	3.E-15	8.E-15	5.E-15	1.E-15	3.E-14
Exposure Duration/Distance to Receptor	9.E-16	1.E-16	7.E-16	8.E-16	1.E-15	6.E-16	9.E-16	3.E-16	6.E-15	8.E-15	7.E-16	8.E-15	1.E-15	9.E-15	3.E-14	2.E-14	5.E-15	9.E-14
Exposure Duration/Waste Volume	8.E-16	9.E-17	6.E-16	7.E-16	8.E-16	5.E-16	8.E-16	3.E-16	5.E-15	7.E-15	6.E-16	7.E-15	9.E-16	7.E-15	2.E-14	1.E-14	4.E-15	7.E-14
Exposure Duration/Inhalation Rate	4.E-16	5.E-17	3.E-16	4.E-16	4.E-16	3.E-16	4.E-16	1.E-16	2.E-15	4.E-15	3.E-16	4.E-15	5.E-16	4.E-15	1.E-14	7.E-15	2.E-15	4.E-14
Waste Concentration/Met. Location	4.E-14	1.E-16	3.E-15	9.E-16	6.E-15	5.E-16	9.E-15	1.E-14	6.E-14	3.E-14	2.E-17	9.E-15	4.E-15	3.E-14	9.E-14	7.E-14	6.E-15	4.E-13
Waste Concentration/Distance to Receptor	1.E-13	4.E-16	9.E-15	3.E-15	2.E-14	2.E-15	3.E-14	5.E-14	2.E-13	1.E-13	6.E-17	3.E-14	1.E-14	9.E-14	3.E-13	2.E-13	2.E-14	1.E-12
Waste Concentration/Waste Volume	1.E-13	3.E-16	8.E-15	3.E-15	2.E-14	1.E-15	2.E-14	4.E-14	2.E-13	9.E-14	5.E-17	3.E-14	1.E-14	7.E-14	3.E-13	2.E-13	2.E-14	1.E-12
Waste Concentration/Inhalation Rate	6.E-14	2.E-16	4.E-15	1.E-15	9.E-15	8.E-16	1.E-14	2.E-14	9.E-14	5.E-14	3.E-17	1.E-14	5.E-15	4.E-14	1.E-13	1.E-13	9.E-15	6.E-13
Met. Location/Distance to Receptor	5.E-16	6.E-17	4.E-16	5.E-16	6.E-16	4.E-16	5.E-16	2.E-16	3.E-15	5.E-15	4.E-16	5.E-15	6.E-16	5.E-15	2.E-14	9.E-15	3.E-15	5.E-14
Met Location/Waste Volume	4.E-16	5.E-17	3.E-16	4.E-16	4.E-16	3.E-16	4.E-16	1.E-16	3.E-15	4.E-15	3.E-16	4.E-15	5.E-16	4.E-15	1.E-14	7.E-15	2.E-15	4.E-14
Met Location/Inhalation Rate	2.E-16	3.E-17	2.E-16	2.E-16	2.E-16	2.E-16	2.E-16	8.E-17	1.E-15	2.E-15	2.E-16	2.E-15	3.E-16	2.E-15	7.E-15	4.E-15	1.E-15	2.E-14
Distance to Receptor/Waste Volume	1.E-15	2.E-16	1.E-15	1.E-15	2.E-15	1.E-15	1.E-15	5.E-16	9.E-15	1.E-14	1.E-15	1.E-14	2.E-15	1.E-14	5.E-14	2.E-14	8.E-15	1.E-13
Distance to Receptor/Inhalation Rate	8.E-16	9.E-17	6.E-16	7.E-16	8.E-16	5.E-16	8.E-16	3.E-16	5.E-15	7.E-15	6.E-16	7.E-15	9.E-16	7.E-15	2.E-14	1.E-14	4.E-15	7.E-14
Waste Volume/Inhalation Rate	6.E-16	8.E-17	5.E-16	6.E-16	7.E-16	4.E-16	6.E-16	2.E-16	4.E-15	6.E-15	5.E-16	6.E-15	7.E-16	6.E-15	2.E-14	1.E-14	3.E-15	6.E-14

## **Appendix H.3.2**

### **Groundwater Pathway Risk Results and Exposure Point Concentrations**

**Table H.3.3. Groundwater Pathway Sensitivity Analysis Results (EDC/VCM Landfill)**

6/25/99

**1,2-Dichloroethane Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameters at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	0.0115	Houston	5.90E-04	279
Area	430	238.82	<b>420,888</b>	15201.9	0.0115	Houston	4.22E-04	96
Site Location	430	117.75	60,705	15201.9	0.0115	<b>Baton Rouge</b>	2.95E-04	51
Leachate Conc.	430	117.75	60,705	15201.9	<b>0.036</b>	Houston	2.28E-04	166
Y Well	430	<b>0</b>	60,705	15201.9	0.0115	Houston	2.05E-04	286
Waste Volume	430	117.75	60,705	<b>50579.4</b>	0.0115	Houston	1.87E-04	275
Central Tendency	430	117.75	60,705	15201.9	0.0115	Houston	8.85E-05	283

**Chloroform Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	0.0099	Houston	7.75E-04	298
Area	430	238.82	<b>420,888</b>	15201.9	0.0099	Houston	3.48E-04	141
Site Location	430	117.75	60,705	15201.9	0.0099	<b>Baton Rouge</b>	3.08E-04	69
Leachate Conc.	430	117.75	60,705	15201.9	<b>0.032</b>	Houston	2.88E-04	213
Y Well	430	<b>0</b>	60,705	15201.9	0.0099	Houston	2.69E-04	308
Waste Volume	430	117.75	60,705	<b>50579.4</b>	0.0099	Houston	2.04E-04	299
Central Tendency	430	117.75	60,705	15201.9	0.0099	Houston	1.16E-04	308

**Methylene Chloride Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	0.0211	Houston	9.49E-04	75
Y Well	430	<b>0</b>	60,705	15201.9	0.0211	Houston	3.30E-04	79
Site Location	430	117.75	60,705	15201.9	0.0211	<b>Baton Rouge</b>	2.47E-04	20
Leachate Conc.	430	117.75	60,705	15201.9	<b>0.044</b>	Houston	2.32E-04	64
Waste Volume	430	117.75	60,705	<b>50579.4</b>	0.0211	Houston	1.68E-04	134
Area	430	238.82	<b>420,888</b>	15201.9	0.0211	Houston	1.64E-04	63
Central Tendency	430	117.75	60,705	15201.9	0.0211	Houston	1.43E-04	79

**Table H.3.3. Groundwater Pathway Sensitivity Analysis Results (EDC/VCM Landfill)**

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**cis -1,3 Dichloropropene Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m2)	Waste Volume (m3)	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc.* (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	0.0028	Houston	0.00E+00	
Y Well	430	<b>0</b>	60,705	15201.9	0.0028	Houston	0.00E+00	
Area	430	238.82	<b>420,888</b>	15201.9	0.0028	Houston	0.00E+00	
Waste Volume	430	117.75	60,705	<b>50579.4</b>	0.0028	Houston	0.00E+00	
Leachate Conc.	430	117.75	60,705	15201.9	<b>0.0038</b>	Houston	0.00E+00	
Site Location	430	117.75	60,705	15201.9	0.0028	<b>Baton Rouge</b>	0.00E+00	
Central Tendency	430	117.75	60,705	15201.9	0.0028	Houston	0.00E+00	

\*Constituent does not reach the receptor well within the modeling time frame (10,000 years) for any scenario.

**OCDD Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m2)	Waste Volume (m3)	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc.* (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	5.50E-08	Houston	0.00E+00	
Leachate Conc.	430	117.75	60,705	15201.9	<b>2.00E-07</b>	Houston	0.00E+00	
Area	430	238.82	<b>420,888</b>	15201.9	5.50E-08	Houston	0.00E+00	
Waste Volume	430	117.75	60,705	<b>50579.4</b>	5.50E-08	Houston	0.00E+00	
Site Location	430	117.75	60,705	15201.9	5.50E-08	<b>Baton Rouge</b>	0.00E+00	
Y Well	430	<b>0</b>	60,705	15201.9	5.50E-08	Houston	0.00E+00	
Central Tendency	430	117.75	60,705	15201.9	5.50E-08	Houston	0.00E+00	

\*Constituent does not reach the receptor well within the modeling time frame (10,000 years) for any scenario.

**OCDF Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m2)	Waste Volume (m3)	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc.* (mg/L)	Peak Time (year)
Area	430	238.82	<b>420,888</b>	15201.9	5.00E-07	Houston	0.00E+00	
Waste Volume	430	117.75	60,705	<b>50579.4</b>	5.00E-07	Houston	0.00E+00	
Y Well	430	<b>0</b>	60,705	15201.9	5.00E-07	Houston	0.00E+00	
X Well	<b>102</b>	93.79	60,705	15201.9	5.00E-07	Houston	0.00E+00	
Leachate Conc.	430	117.75	60,705	15201.9	<b>9.90E-05</b>	Houston	0.00E+00	
Site Location	430	117.75	60,705	15201.9	5.00E-07	<b>Baton Rouge</b>	0.00E+00	
Central Tendency	430	117.75	60,705	15201.9	5.00E-07	Houston	0.00E+00	

\*Constituent does not reach the receptor well within the modeling time frame (10,000 years) for any scenario.



**Table H.3.3. Groundwater Pathway Sensitivity Analysis Results (EDC/VCM Landfill)**

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**1,2,3,4,7,8,9-HpCDF Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc. * (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	2.70E-08	Houston	0.00E+00	
Leachate Conc.	430	117.75	60,705	15201.9	<b>4.00E-07</b>	Houston	0.00E+00	
Area	430	238.82	<b>420,888</b>	15201.9	2.70E-08	Houston	0.00E+00	
Waste Volume	430	117.75	60,705	<b>50579.4</b>	2.70E-08	Houston	0.00E+00	
Site Location	430	117.75	60,705	15201.9	2.70E-08	<b>Baton Rouge</b>	0.00E+00	
Y Well	430	<b>0</b>	60,705	15201.9	2.70E-08	Houston	0.00E+00	
Central Tendency	430	117.75	60,705	15201.9	2.70E-08	Houston	0.00E+00	

\*Constituent does not reach the receptor well within the modeling time frame (10,000 years) for any scenario.

**1,2,3,4,6,7,8-HpCDF Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc. * (mg/L)	Peak Time (year)
Leachate Conc.	430	117.75	60,705	15201.9	<b>1.10E-06</b>	Houston	0.00E+00	
X Well	<b>102</b>	93.79	60,705	15201.9	8.30E-08	Houston	0.00E+00	
Area	430	238.82	<b>420,888</b>	15201.9	8.30E-08	Houston	0.00E+00	
Waste Volume	430	117.75	60,705	<b>50579.4</b>	8.30E-08	Houston	0.00E+00	
Site Location	430	117.75	60,705	15201.9	8.30E-08	<b>Baton Rouge</b>	0.00E+00	
Y Well	430	<b>0</b>	60,705	15201.9	8.30E-08	Houston	0.00E+00	
Central Tendency	430	117.75	60,705	15201.9	8.30E-08	Houston	0.00E+00	

\*Constituent does not reach the receptor well within the modeling time frame (10,000 years) for any scenario.

**Molybdenum Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	1.00E-01	Houston	1.71E-03	4,495
Waste Volume	430	117.75	60,705	<b>50579.4</b>	1.00E-01	Houston	6.97E-04	5,287
Y Well	430	<b>0</b>	60,705	15201.9	1.00E-01	Houston	5.58E-04	4,987
Leachate Conc.	430	117.75	60,705	15201.9	<b>2.20E-01</b>	Houston	2.53E-04	4,777
Site Location	430	117.75	60,705	15201.9	1.00E-01	<b>Baton Rouge</b>	2.39E-04	1,531
Area	430	238.82	<b>420,888</b>	15201.9	1.00E-01	Houston	1.39E-04	4,961
Central Tendency	430	117.75	60,705	15201.9	1.00E-01	Houston	2.48E-04	4,909

**Table H.3.3. Groundwater Pathway Sensitivity Analysis Results (EDC/VCM Landfill)**

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**Manganese Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	4.40E+00	Houston	7.86E-01	9,451
Area	430	238.82	<b>420,888</b>	15201.9	4.40E+00	Houston	5.11E-01	<sup>b</sup>
Site Location	430	117.75	60,705	15201.9	4.40E+00	<b>Baton Rouge</b>	4.59E-01	1,149
Leachate Conc.	430	117.75	60,705	15201.9	<b>1.29E+01</b>	Houston	3.46E-01	9,349
Y Well	430	<b>0</b>	60,705	15201.9	4.40E+00	Houston	2.69E-01	<sup>b</sup>
Waste Volume	430	117.75	60,705	<b>50579.4</b>	4.40E+00	Houston	1.18E-01	<sup>b</sup>
Central Tendency	430	117.75	60,705	15201.9	4.40E+00	Houston	1.18E-01	<sup>b</sup>

<sup>b</sup> For this scenario, the peak concentration did not reach the receptor well within the 10,000 year modeling period.

The reported value is the concentration at 10,000 years.

**Nickel Sensitivity Analysis (dry weight conc., groundwater temp. of 15 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	Leachate Conc. (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
Site Location	430	117.75	60,705	15201.9	6.00E-01	<b>Baton Rouge</b>	6.25E-02	1,681
X Well	<b>102</b>	93.79	60,705	15201.9	6.00E-01	Houston	1.05E-05	<sup>b</sup>
Leachate Conc.	430	117.75	60,705	15201.9	<b>1.30E+00</b>	Houston	9.58E-06	<sup>b</sup>
Y Well	430	<b>0</b>	60,705	15201.9	6.00E-01	Houston	3.84E-06	<sup>b</sup>
Waste Volume	430	117.75	60,705	<b>50579.4</b>	6.00E-01	Houston	1.62E-06	<sup>b</sup>
Area	430	238.82	<b>420,888</b>	15201.9	6.00E-01	Houston	0.00E+00	<sup>b</sup>
Central Tendency	430	117.75	60,705	15201.9	6.00E-01	Houston	1.62E-06	<sup>b</sup>

<sup>b</sup> For this scenario, the peak concentration did not reach the receptor well within the 10,000 year modeling period.

The reported value is the concentration at 10,000 years.

**Bis(2-chloroethyl)ether (parent) Sensitivity Analysis, (wet weight conc., groundwater temp. of 22.5 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	C <sub>Lzero</sub> (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
Site Location	430	117.75	60,705	15201.9	0.0068	<b>Baton Rouge</b>	2.64E-05	71
X Well	<b>102</b>	93.79	60,705	15201.9	0.0068	Houston	7.82E-07	269
Y Well	430	<b>0</b>	60,705	15201.9	0.0068	Houston	2.84E-07	297
Area	430	238.82	<b>420,888</b>	15201.9	0.0068	Houston	2.15E-07	154
Waste Volume	430	117.75	60,705	<b>50579.4</b>	0.0068	Houston	2.05E-07	266
Leachate Conc.	430	117.75	60,705	15201.9	<b>0.012</b>	Houston	1.22E-07	276
Base Case (all at CT)	430	117.75	60,705	15201.9	0.0068	Houston	1.19E-07	281

**Table H.3.3. Groundwater Pathway Sensitivity Analysis Results (EDC/VCM Landfill)**

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**2-(2-Chloroethoxy)ethanol (1. break down product) Sensitivity Analysis**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	C <sub>Lzero</sub> * (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
Site Location	430	117.75	60,705	15201.9	0.0068	<b>Baton Rouge</b>	1.06E-04	N/A
X Well	<b>102</b>	93.79	60,705	15201.9	0.0068	Houston	3.22E-06	N/A
Area	430	238.82	<b>420,888</b>	15201.9	0.0068	Houston	7.21E-07	N/A
Y Well	430	<b>0</b>	60,705	15201.9	0.0068	Houston	5.52E-07	N/A
Leachate Conc.	430	117.75	60,705	15201.9	<b>0.012</b>	Houston	5.14E-07	N/A
Base Case (all at CT)	430	117.75	60,705	15201.9	0.0068	Houston	2.82E-07	N/A
Waste Volume	430	117.75	60,705	<b>50579.4</b>	0.0068	Houston	2.58E-07	N/A

\* Source data for parent species.

NA = Arrival times for breakdown products are not well defined.

**1,4-dioxane (2. break down product) Sensitivity Analysis**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	C <sub>Lzero</sub> * (mg/L)	Site	9-yr Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	0.0068	Houston	7.46E-04	N/A
Area	430	238.82	<b>420,888</b>	15201.9	0.0068	Houston	4.90E-04	N/A
Site Location	430	117.75	60,705	15201.9	0.0068	<b>Baton Rouge</b>	3.36E-04	N/A
Y Well	430	<b>0</b>	60,705	15201.9	0.0068	Houston	2.57E-04	N/A
Leachate Conc.	430	117.75	60,705	15201.9	<b>0.012</b>	Houston	1.98E-04	N/A
Waste Volume	430	117.75	60,705	<b>50579.4</b>	0.0068	Houston	1.12E-04	N/A
Base Case (all at CT)	430	117.75	60,705	15201.9	0.0068	Houston	1.12E-04	N/A

\* Source data for parent species.

NA = Arrival times for breakdown products are not well defined.

**Arsenic Sensitivity Analysis (wet weight concentrations, groundwater temperature of 22.5 degrees C)**

Parameter at High End	X Well (m)	Y Well (m)	Area (m <sup>2</sup> )	Waste Volume (m <sup>3</sup> )	C <sub>Lzero</sub> (mg/L)	Site	Avg. Conc. (mg/L)	Peak Time (year)
X Well	<b>102</b>	93.79	60,705	15201.9	1.86E-02	Houston	1.43E-03	8,817
Y Well	430	<b>0</b>	60,705	15201.9	1.86E-02	Houston	4.82E-04	9,775
Site Location	430	117.75	60,705	15201.9	1.86E-02	<b>Baton Rouge</b>	3.94E-04	1,935
Waste Volume	430	117.75	60,705	<b>50579.4</b>	1.86E-02	Houston	3.37E-04	<sup>b</sup>
Leachate Conc.	430	117.75	60,705	15201.9	<b>5.30E-02</b>	Houston	2.96E-04	8,708
Base Case (all at CT)	430	117.75	60,705	15201.9	1.86E-02	Houston	2.10E-04	9,650
Area	430	238.82	<b>420,888</b>	15201.9	1.86E-02	Houston	1.79E-04	8,719

<sup>b</sup> For this scenario, the peak concentration did not reach the receptor well within the 10,000 year modeling period.

The reported value is the concentration at 10,000 years.

**Table H.3-4. Contaminant Groundwater Concentrations, Peak Time of Travel, and Mass Flux from Groundwater to Surface Water (Groundwater, EDC/VCM Landfill)**

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Chemical of concern	Scenario	Avg. Conc. (mg/L)	Peak Time (year)	Mass Flux (mg/y)
1,2-Dichloroethane	Central Tendency	8.85E-05	283	2.29E+03
	X-well, Area	1.26E-03	95	6.13E+04
Chloroform	Central Tendency	1.16E-04	308	3.00E+03
	X-well, Area	1.03E-03	136	5.01E+04
Methylene Chloride	Central Tendency	1.43E-04	79	3.69E+03
	X-well, Exposure Duration	8.98E-04	75	1.64E+04
cis-1,3-Dichloropropene	Central Tendency	0.00E+00	<sup>a</sup>	0.00E+00
OCDD	Central Tendency	0.00E+00	<sup>a</sup>	0.00E+00
OCDF	Central Tendency	0.00E+00	<sup>a</sup>	0.00E+00
1,2,3,4,7,8,9-HpCDF	Central Tendency	0.00E+00	<sup>a</sup>	0.00E+00
1,2,3,4,6,7,8-HpCDF	Central Tendency	0.00E+00	<sup>a</sup>	0.00E+00
Molybdenum	Central Tendency	2.48E-04	4,910	6.41E+03
	X-well, Waste Volume	4.75E-03	4,900	8.67E+04
Manganese	Central Tendency	1.18E-01	<sup>b</sup>	3.05E+06
	X-well, Area	1.55E+00	<sup>b</sup>	7.54E+07
Nickel	Central Tendency	1.62E-06	<sup>b</sup>	4.19E+01
	Site Location, X-well	3.08E-01	1,370	5.62E+06

**Assumptions:**

1. Mass volatilized based on dry-weight waste concentrations.
2. Based on max annual (1-yr avg) leachate concentration.
3. Aquifer temp = 15C.

<sup>a</sup> Chemical did not arrive at receptor well for any high-end scenario

<sup>b</sup> For this scenario, the peak concentration did not reach the receptor well within the 10,000 year modeling period.

The reported value is the concentration at 10,000 years.

**Table H.3-4. Contaminant Groundwater Concentrations, Peak Time of Travel, and Mass Flux from Groundwater to Surface Water (Groundwater, EDC/VCM Landfill)**

6/25/99

Chemical of concern	Scenario	Avg. Conc. (mg/L)	Peak Time (year)	Mass Flux (mg/y)
Bis(2-chloroethyl)ether	Central Tendency	1.19E-07	281	3.07E+00
	Site Location, X-Well	1.30E-04	67	2.38E+03
2-(2-chloroethoxy)ethanol	Central Tendency	2.82E-07	N/A	7.29E+00
	Site Location, X-Well	7.29E-04	N/A	1.33E+04
1,4-Dioxane	Central Tendency	1.12E-04	N/A	2.89E+03
	X-Well, Area	1.46E-03	N/A	7.08E+04
Arsenic	Central Tendency	2.10E-04	9,650	5.43E+03
	X-well, Exp. Duration	1.42E-03	8,817	2.60E+04

**Assumptions:**

1. Mass volatilized based on wet-weight waste concentrations.
2. Based on 9-yr-avg leachate concentration.
3. Aquifer temp = 22.5C.

NA = Arrival times for breakdown products are not well defined.

Table H.3-5a. Deterministic Groundwater Risk Results (EDC/VCM Landfill), Adult Resident and Gardener

6/25/99

Constituent	CAS No.	Scenario	Groundwater Concentration (mg/L)	Total Inhalation Risk from Household Uses of Groundwater	Dermal Hazard Quotient or Risk	Risk or HQ from Drinking Water Ingestion	Summed Risk or HQ from Non-Inhalation Pathways
Chloroform	67-66-3	Central Tendency	1.16E-04	3.6E-08	2.0E-10	1.8E-09	2.0E-09
		X-well, Area	1.03E-03	3.2E-07	1.8E-09	1.6E-08	1.7E-08
Methylene Chloride	75-09-2	Central Tendency	1.43E-04	9.0E-10	1.3E-10	2.7E-09	2.8E-09
		X-well, Exp. Duration	8.98E-04	1.9E-08	2.7E-09	5.6E-08	5.8E-08
1,2-Dichloroethane	107-06-2	Central Tendency	8.85E-05	2.5E-08	1.2E-09	2.0E-08	2.1E-08
		X-well, Area	1.26E-03	3.5E-07	1.8E-08	2.8E-07	3.0E-07
Bis(2-chloroethyl)ether*	111-44-4	Central Tendency	1.19E-07	2.9E-11	9.7E-12	3.2E-10	3.3E-10
		Site Location, X-well	1.30E-04	3.1E-08	1.1E-08	3.2E-07	3.3E-07
1,4-Dioxane (p-Dioxane)*	123-91-1	Central Tendency	1.12E-04	NA	9.7E-12	3.1E-09	3.1E-09
		X-well, Area	1.46E-03	NA	1.4E-10	4.0E-08	4.1E-08
Manganese	7439-96-5	Central Tendency	1.18E-01	NA	0.0002	0.02	0.02
		X-well, Area	1.55E+00	NA	0.003	0.2	0.2
Molybdenum	7439-98-7	Central Tendency	2.48E-04	NA	0.00001	0.001	0.001
		X-well, Waste Volume	4.75E-03	NA	0.0002	0.02	0.02
Nickel	7440-02-0	Central Tendency	1.62E-06	NA	0.00000002	0.000002	0.000002
		Site Location, X-well	3.08E-01	NA	0.004	0.3	0.3
Arsenic*	7440-38-2	Central Tendency	2.10E-04	NA	9.E-09	8.E-07	8.E-07
		X-well, Exp. Duration	1.42E-03	NA	2.E-07	<b>2.E-05</b>	<b>2.E-05</b>

\* Based on wet weight waste concentration data and revised groundwater temperature.

Table H.3-5b. Deterministic Groundwater Risk Results (EDC/VCM Landfill), Farmer

6/25/99

Constituent	CAS No.	Scenario	Groundwater Concentration (mg/L)	Total Inhalation Risk from Household Uses of Groundwater	Dermal Hazard Quotient or Risk	Risk or HQ from Drinking Water Ingestion	Summed Risk or HQ from Non-Inhalation Pathways
Chloroform	67-66-3	Central Tendency	1.16E-04	4.0E-08	2.2E-10	1.9E-09	2.2E-09
		X-well, Area	1.03E-03	3.6E-07	2.0E-09	1.7E-08	1.9E-08
Methylene Chloride	75-09-2	Central Tendency	1.43E-04	1.0E-09	1.4E-10	3.0E-09	3.1E-09
		X-well, Exp. Duration	8.98E-04	3.0E-08	4.3E-09	9.0E-08	9.4E-08
1,2-Dichloroethane	107-06-2	Central Tendency	8.85E-05	2.7E-08	1.4E-09	2.2E-08	2.4E-08
		X-well, Area	1.26E-03	3.9E-07	2.0E-08	3.2E-07	3.4E-07
Bis(2-chloroethyl)ether*	111-44-4	Central Tendency	1.19E-07	3.2E-11	1.1E-11	3.6E-10	3.7E-10
		Site Location, X-well	1.30E-04	3.1E-08	1.1E-08	3.5E-07	3.6E-07
1,4-Dioxane (p-Dioxane)*	123-91-1	Central Tendency	1.12E-04	NA	1.1E-11	3.4E-09	3.4E-09
		X-well, Area	1.46E-03	NA	1.4E-10	4.5E-08	4.5E-08
Manganese	7439-96-5	Central Tendency	1.18E-01	NA	0.0002	0.02	0.02
		X-well, Area	1.55E+00	NA	0.003	0.2	0.2
Molybdenum	7439-98-7	Central Tendency	2.48E-04	NA	0.00001	0.001	0.001
		X-well, Waste Volume	4.75E-03	NA	0.0002	0.02	0.02
Nickel	7440-02-0	Central Tendency	1.62E-06	NA	0.00000002	0.000002	0.000002
		Site Location, X-well	3.08E-01	NA	0.004	0.3	0.3
Arsenic*	7440-38-2	Central Tendency	2.10E-04	NA	1.E-08	9.E-07	9.E-07
		X-well, Exp. Duration	1.42E-03	NA	3.E-07	<b>3.E-05</b>	<b>3.E-05</b>

\* Based on wet weight waste concentration data and revised groundwater temperature.



Table H.3-5c. Deterministic Groundwater Risk Results (EDC/VCM Landfill), Fisher

6/25/99

Constituent	CAS No.	Scenario	Groundwater Concentration (mg/L)	Total Inhalation Risk from Household Uses of Groundwater	Dermal Hazard Quotient or Risk	Risk or HQ from Fish Ingestion	Risk or HQ from Drinking Water Ingestion	Summed Risk or HQ from Non-Inhalation Pathways
Chloroform	67-66-3	Central Tendency	1.16E-04	3.6E-08	2.0E-10	3.3E-15	1.8E-09	2.0E-09
		X-well, Area	1.03E-03	3.2E-07	1.8E-09	5.5E-14	1.6E-08	1.7E-08
Methylene Chloride	75-09-2	Central Tendency	1.43E-04	9.0E-10	1.3E-10	5.3E-15	2.7E-09	2.8E-09
		X-well, Exp. Duration	8.98E-04	1.9E-08	2.7E-09	8.9E-14	5.6E-08	5.8E-08
1,2-Dichloroethane	107-06-2	Central Tendency	8.85E-05	2.5E-08	1.2E-09	1.1E-13	2.0E-08	2.1E-08
		X-well, Area	1.26E-03	3.5E-07	1.8E-08	2.9E-12	2.8E-07	3.0E-07
Bis(2-chloroethyl)ether*	111-44-4	Central Tendency	1.19E-07	2.9E-11	9.7E-12	4.1E-15	3.2E-10	3.3E-10
		Site Location, X-well	1.30E-04	3.1E-08	1.1E-08	3.2E-12	3.2E-07	3.3E-07
1,4-Dioxane (p-Dioxane)*	123-91-1	Central Tendency	1.12E-04	NA	9.7E-12	1.7E-15	3.1E-09	3.1E-09
		X-well, Area	1.46E-03	NA	1.4E-10	4.2E-14	4.0E-08	4.1E-08
Manganese	7439-96-5	Central Tendency	1.18E-01	NA	0.0002	NA	0.02	0.02
		X-well, Area	1.55E+00	NA	0.003	NA	0.2	0.2
Molybdenum	7439-98-7	Central Tendency	2.48E-04	NA	0.00001	NA	0.001	0.001
		X-well, Waste Volume	4.75E-03	NA	0.0002	NA	0.02	0.02
Nickel	7440-02-0	Central Tendency	1.62E-06	NA	0.00000002	0.000000000003	0.000002	0.000002
		Site Location, X-well	3.08E-01	NA	0.004	0.0000002	0.3	0.3
Arsenic*	7440-38-2	Central Tendency	2.10E-04	NA	9.E-09	5.E-12	8.E-07	8.E-07
		X-well, Exp. Duration	1.42E-03	NA	2.E-07	1.E-10	<b>2.E-05</b>	<b>2.E-05</b>

\* Based on wet weight waste concentration data and revised groundwater temperature.



Table H.3-5d. Deterministic Groundwater Risk Results (EDC/VCM Landfill), Child of Resident and Child of Farmer

6/25/99

Constituent	CAS No.	Scenario	Groundwater Concentration (mg/L)	Risk or HQ from Drinking Water Ingestion
Chloroform	67-66-3	Central Tendency	1.16E-04	1E-09
		X-well, Area	1.03E-03	1E-08
Methylene Chloride	75-09-2	Central Tendency	1.43E-04	2E-09
		X-well, Exp. Duration	8.98E-04	3E-08
1,2-Dichloroethane	107-06-2	Central Tendency	8.85E-05	2E-08
		X-well, Area	1.26E-03	2E-07
Bis(2-chloroethyl)ether*	111-44-4	Central Tendency	1.19E-07	4E-10
		Site Location, X-well	1.30E-04	2E-07
1,4-Dioxane (p-Dioxane)*	123-91-1	Central Tendency	1.12E-04	2E-09
		X-well, Area	1.46E-03	3E-08
Manganese	7439-96-5	Central Tendency	1.18E-01	0.02
		X-well, Area	1.55E+00	0.2
Molybdenum	7439-98-7	Central Tendency	2.48E-04	0.001
		X-well, Waste Volume	4.75E-03	0.02
Nickel	7440-02-0	Central Tendency	1.62E-06	0.000002
		Site Location, X-well	3.08E-01	0.3
Arsenic*	7440-38-2	Central Tendency	2.10E-04	6.E-07
		X-well, Exp. Duration	1.42E-03	<b>9.E-06</b>

\* Based on wet weight waste concentration data and revised groundwater temperature.

**Table H.3-6a. Monte Carlo Groundwater Risk Results (EDC/VCM Landfill),  
Adult Resident, Gardener, Fisher and Farmer**

6/25/99

Percentiles	Drinking Water Ingestion AR, HG, Fisher	Drinking Water Ingestion Farmer
10%	4.71E-14	5.84E-14
20%	1.26E-11	1.57E-11
30%	3.19E-10	4.06E-10
40%	3.00E-09	3.79E-09
50%	1.70E-08	2.13E-08
60%	6.91E-08	9.20E-08
70%	2.40E-07	3.00E-07
80%	7.64E-07	9.46E-07
90%	2.64E-06	3.33E-06
95%	6.00E-06	8.00E-06
97.5%	1.13E-05	1.46E-05
100%	2.15E-04	3.33E-04

AR = Adult Resident  
HG = Home Gardener

**Table H.3-6b. Monte Carlo Groundwater Risk Results (EDC/VCM Landfill),  
Child of Resident and Child of Farmer**

6/25/99

Percentiles	Resident Child			Farm Child		
	Age 1-5	Age 6-11	Age 12-18	Age 1-5	Age 6-11	Age 12-18
10%	6.11E-14	5.11E-14	3.88E-14	1.11E-13	7.5E-14	5.9E-14
20%	1.27E-11	1.06E-11	8.06E-12	2.31E-11	1.6E-11	1.2E-11
30%	3.13E-10	2.58E-10	1.94E-10	5.30E-10	3.7E-10	2.8E-10
40%	2.74E-09	2.26E-09	1.72E-09	4.84E-09	3.3E-09	2.6E-09
50%	1.46E-08	1.24E-08	9.35E-09	2.60E-08	1.7E-08	1.3E-08
60%	6.20E-08	5.21E-08	3.90E-08	1.15E-07	7.8E-08	5.9E-08
70%	2.26E-07	1.92E-07	1.42E-07	3.90E-07	2.7E-07	2.1E-07
80%	7.01E-07	5.85E-07	4.51E-07	1.24E-06	8.4E-07	6.6E-07
90%	2.31E-06	1.93E-06	1.47E-06	4.06E-06	2.7E-06	2.2E-06
95%	4.97E-06	4.19E-06	3.24E-06	8.98E-06	6.2E-06	5.2E-06
97.5%	9.27E-06	7.58E-06	5.99E-06	1.61E-05	1.1E-05	9.5E-06
100%	1.22E-04	1.01E-04	8.96E-05	1.85E-04	1.5E-04	1.4E-04

## **Appendix H-4**

### **Methyl Chloride Sludge, Landfill Scenario Risk Results**

**Table H.4-1a. Risk and Sensitivity Analysis Results for Ingestion Exposure (Methyl Chloride Landfill, Non-Groundwater Deterministic), Adult Resident (Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Acetone	Methylene chloride	OCDD, 1,2,3,4,5,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8,9-	HpCDF 1,2,3,4,6,7,8-
<b>Central Tendency</b>	<0.0001	2E-20	4E-19	4E-18	1E-19	7E-18
<b>Single High End Parameter</b>						
Exposure Duration	<0.0001	6E-20	1E-18	1E-17	5E-19	2E-17
Distance to Receptor	<0.0001	2E-19	3E-18	3E-17	1E-18	4E-17
<b>Double High End Parameters</b>						
Exposure Duration/Distance to Receptor	<0.0001	6E-19	8E-18	9E-17	3E-18	1E-16

**Table H.4-1b. Risk and Sensitivity Analysis Results for Ingestion Exposure  
(Methyl Chloride Landfill, Non-Groundwater Deterministic), Gardener  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Acetone	Methylene chloride	OCDD, 1,2,3,4,5,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8,9-	HpCDF, 1,2,3,4,6,7,8,-
<b>Central Tendency</b>	<0.0001	7E-18	2E-16	8E-17	1E-17	2E-16
<b>Single High End Parameter</b>						
Exposure Duration	<0.0001	2E-17	6E-16	3E-16	3E-17	6E-16
Exposed Veg. Intake	<0.0001	2E-17	3E-16	1E-16	2E-17	3E-16
Root Veg. Intake	<0.0001	7E-18	2E-16	8E-17	1E-17	2E-16
Fruit Intake	<0.0001	2E-17	6E-16	3E-16	3E-17	6E-16
Distance to Receptor	<0.0001	6E-17	2E-15	7E-16	9E-17	2E-15
<b>Double High End Parameters</b>						
Exposure Duration/Exposed Veg. Intake	<0.0001	6E-17	9E-16	4E-16	5E-17	9E-16
Exposure Duration/Root Veg. Intake	<0.0001	2E-17	6E-16	3E-16	3E-17	6E-16
Exposure Duration/Fruit Intake	<0.0001	6E-17	2E-15	9E-16	1E-16	2E-15
Exposure Duration/Distance to Receptor	<0.0001	2E-16	5E-15	2E-15	3E-16	5E-15
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	2E-17	3E-16	1E-16	2E-17	3E-16
Exposed Veg. Intake/ Fruit Intake	<0.0001	3E-17	7E-16	3E-16	4E-17	6E-16
Exposed Veg. Intake/Distance to Receptor	<0.0001	2E-16	3E-15	1E-15	1E-16	2E-15
Root Veg. Intake/Fruit Intake	<0.0001	2E-17	6E-16	3E-16	3E-17	6E-16
Root Veg. Intake/Distance to Receptor	<0.0001	6E-17	2E-15	8E-16	9E-17	2E-15
Fruit Intake/Distance to Receptor	<0.0001	2E-16	5E-15	2E-15	3E-16	5E-15

**Table H.4-1c. Risk and Sensitivity Analysis Results for Ingestion Exposure  
(Methyl Chloride Landfill, Non-Groundwater Deterministic), Farmer  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Acetone	Methylene chloride	OCDD, 1,2,3,4,5,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8,9-	HpCDF, 1,2,3,4,6,7,8,-
<b>Central Tendency</b>	<0.0001	3E-17	2E-14	7E-15	9E-16	2E-14
<b>Single High End Parameter</b>						
Exposure Duration	<0.0001	2E-16	9E-14	4E-14	4E-15	8E-14
Beef intake	<0.0001	3E-17	4E-14	2E-14	2E-15	3E-14
Dairy Intake	<0.0001	3E-17	3E-14	1E-14	2E-15	3E-14
Exposed Veg. Intake	<0.0001	8E-17	2E-14	8E-15	9E-16	2E-14
Root Veg. Intake	<0.0001	4E-17	2E-14	7E-15	9E-16	2E-14
Fruit Intake	<0.0001	9E-17	2E-14	8E-15	1E-15	2E-14
Distance to Receptor	<0.0001	3E-16	2E-13	7E-14	8E-15	1E-13
<b>Double High End Parameters</b>						
Exposure Duration/Beef Intake	<0.0001	2E-16	2E-13	8E-14	9E-15	2E-13
Exposure Duration/Dairy Intake	<0.0001	2E-16	2E-13	7E-14	8E-15	1E-13
Exposure Duration/Exposed Veg. Intake	<0.0001	4E-16	9E-14	4E-14	4E-15	8E-14
Exposure Duration/Root Veg. Intake	<0.0001	2E-16	9E-14	4E-14	4E-15	8E-14
Exposure Duration/Fruit Intake	<0.0001	5E-16	1E-13	4E-14	5E-15	9E-14
Exposure Duration/Distance to Receptor	<0.0001	2E-15	9E-13	3E-13	4E-14	7E-13
Beef Intake/ Dairy Intake	<0.0001	4E-17	6E-14	2E-14	3E-15	5E-14
Beef Intake/ Exposed Veg. Intake	<0.0001	8E-17	4E-14	2E-14	2E-15	3E-14
Beef Intake/Root Vegetable Intake	<0.0001	4E-17	4E-14	2E-14	2E-15	3E-14
Beef Intake/Fruit Intake	<0.0001	9E-17	5E-14	2E-14	2E-15	4E-14
Beef Intake/Distance to Receptor	<0.0001	3E-16	4E-13	1E-13	2E-14	3E-13
Dairy Intake/Exposed Vegetable Intake	<0.0001	8E-17	3E-14	1E-14	2E-15	3E-14
Dairy Intake/Root Vegetable Intake	<0.0001	4E-17	3E-14	1E-14	2E-15	3E-14
Dairy Intake/Fruit Intake	<0.0001	9E-17	4E-14	1E-14	2E-15	3E-14
Dairy Intake/Distance to Receptor	<0.0001	3E-16	3E-13	1E-13	2E-14	3E-13
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	8E-17	2E-14	8E-15	9E-16	2E-14
Exposed Veg. Intake/ Fruit Intake	<0.0001	1E-16	2E-14	8E-15	1E-15	2E-14
Exposed Veg. Intake/Distance to Receptor	<0.0001	7E-16	2E-13	7E-14	8E-15	2E-13
Root Veg. Intake/Fruit Intake	<0.0001	1E-16	2E-14	8E-15	1E-15	2E-14
Root Veg. Intake/Distance to Receptor	<0.0001	3E-16	2E-13	7E-14	8E-15	1E-13
Fruit Intake/Distance to Receptor	<0.0001	9E-16	2E-13	8E-14	9E-15	2E-13

**Table H.4-1d. Risk and Sensitivity Analysis Results for Ingestion Exposure  
(Methyl Chloride Landfill, Non-Groundwater Deterministic), Fisher  
(Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Acetone	Methylene chloride	OCDD, 1,2,3,4,5,7,8,9	HpCDD, 1,2,3,4,6,7,8	OCDF, 1,2,3,4,6,7,8,9	HpCDF 1,2,3,4,6,7,8
<b>Central Tendency</b>	<0.0001	4E-17	6E-23	3E-20	2E-23	5E-20
<b>Single High End Parameter</b>						
Exposure Duration	<0.0001	1E-16	2E-22	1E-19	7E-23	2E-19
Fish Intake	<0.0001	1E-16	2E-22	1E-19	7E-23	2E-19
Distance to Receptor	<0.0001	6E-17	9E-23	5E-20	4E-23	8E-20
<b>Double High End Parameters</b>						
Exposure Duration/Fish Intake	<0.0001	4E-16	6E-22	3E-19	2E-22	5E-19
Exposure Duration/Distance to Receptor	<0.0001	2E-16	3E-22	2E-19	1E-22	3E-19
Fish Intake/Distance to Receptor	<0.0001	2E-16	3E-22	2E-19	1E-22	3E-19



**Table H.4-1e. Risk and Sensitivity Analysis Results for Ingestion Exposure  
(Methyl Chloride Landfill, Non-Groundwater Deterministic), Child of Resident  
(Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Acetone	Methylene chloride	OCDD, 1,2,3,4,5,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8,9-	HpCDF 1,2,3,4,6,7,8,-
<b>Central Tendency</b>	<0.0001	6E-20	1E-18	1E-17	5E-19	2E-17
<b>Single High End Parameter</b>						
Exposure Duration	<0.0001	1E-19	3E-18	3E-17	1E-18	4E-17
Child Soil Intake	<0.0001	2E-19	4E-18	4E-17	1E-18	6E-17
Distance to Receptor	<0.0001	5E-19	8E-18	9E-17	3E-18	1E-16
<b>Double High End Parameters</b>						
Exposure Duration/Child Soil Intake	<0.0001	4E-19	7E-18	8E-17	3E-18	1E-16
Exposure Duration/Distance to Receptor	<0.0001	1E-18	2E-17	2E-16	6E-18	3E-16
Child Soil Intake/Distance to Receptor	<0.0001	2E-18	2E-17	3E-16	9E-18	4E-16

**Table H.4-1f. Risk and Sensitivity Analysis Results for Inhalation Exposure (Methyl Chloride Landfill, Non-Groundwater Deterministic), Child of Farmer (Risk Results Based on Dry Weight Waste Concentrations)**

6/25/99

High End Parameter(s)	Acetone	Methylene chloride	OCDD, 1,2,3,4,5,7,8,9-	HpCDD, 1,2,3,4,6,7,8,-	OCDF, 1,2,3,4,6,7,8,9-	HpCDF 1,2,3,4,6,7,8,-
<b>Central Tendency</b>	<0.0001	2E-17	2E-14	6E-15	7E-16	1E-14
<b>Single High End Parameter</b>						
Exposure Duration	<0.0001	5E-17	3E-14	1E-14	2E-15	3E-14
Beef intake	<0.0001	2E-17	4E-14	1E-14	2E-15	3E-14
Dairy Intake	<0.0001	2E-17	2E-14	9E-15	1E-15	2E-14
Exposed Veg. Intake	<0.0001	5E-17	2E-14	6E-15	7E-16	1E-14
Root Veg. Intake	<0.0001	3E-17	2E-14	6E-15	7E-16	1E-14
Fruit Intake	<0.0001	9E-17	2E-14	7E-15	9E-16	2E-14
Child Soil Intake	<0.0001	2E-17	2E-14	6E-15	7E-16	1E-14
Distance to Receptor	<0.0001	2E-16	2E-13	6E-14	7E-15	1E-13
<b>Double High End Parameters</b>						
Exposure Duration/Beef Intake	<0.0001	5E-17	8E-14	3E-14	3E-15	6E-14
Exposure Duration/Dairy Intake	<0.0001	5E-17	5E-14	2E-14	2E-15	4E-14
Exposure Duration/Exposed Veg. Intake	<0.0001	1E-16	3E-14	1E-14	2E-15	3E-14
Exposure Duration/Root Veg. Intake	<0.0001	5E-17	3E-14	1E-14	2E-15	3E-14
Exposure Duration/Fruit Intake	<0.0001	2E-16	4E-14	2E-14	2E-15	3E-14
Exposure Duration/Child Soil Intake	<0.0001	5E-17	3E-14	1E-14	2E-15	3E-14
Exposure Duration/Distance to Receptor	<0.0001	5E-16	3E-13	1E-13	1E-14	3E-13
Beef Intake/ Dairy Intake	<0.0001	2E-17	5E-14	2E-14	2E-15	4E-14
Beef Intake/ Exposed Veg. Intake	<0.0001	5E-17	4E-14	1E-14	2E-15	3E-14
Beef Intake/Root Vegetable Intake	<0.0001	3E-17	4E-14	1E-14	2E-15	3E-14
Beef Intake/Fruit Intake	<0.0001	9E-17	4E-14	2E-14	2E-15	3E-14
Beef Intake/Child Soil Intake	<0.0001	2E-17	4E-14	1E-14	2E-15	3E-14
Beef Intake/Distance to Receptor	<0.0001	2E-16	4E-13	1E-13	2E-14	3E-13
Dairy Intake/Exposed Vegetable Intake	<0.0001	5E-17	2E-14	9E-15	1E-15	2E-14
Dairy Intake/Root Vegetable Intake	<0.0001	3E-17	2E-14	9E-15	1E-15	2E-14
Dairy Intake/Fruit Intake	<0.0001	9E-17	3E-14	1E-14	1E-15	2E-14
Dairy Intake/ Child Soil Intake	<0.0001	2E-17	2E-14	9E-15	1E-15	2E-14
Dairy Intake/Distance to Receptor	<0.0001	2E-16	2E-13	9E-14	1E-14	2E-13
Exposed Veg. Intake/ Root Veg. Intake	<0.0001	5E-17	2E-14	6E-15	7E-16	1E-14
Exposed Veg. Intake/ Fruit Intake	<0.0001	1E-16	2E-14	7E-15	9E-16	2E-14
Exposed Veg. Intake/Child Soil Intake	<0.0001	5E-17	2E-14	6E-15	7E-16	1E-14
Exposed Veg. Intake/Distance to Receptor	<0.0001	4E-16	2E-13	6E-14	7E-15	1E-13
Root Veg. Intake/Fruit Intake	<0.0001	9E-17	2E-14	7E-15	9E-16	2E-14
Root Veg. Intake/Child Soil Intake	<0.0001	3E-17	2E-14	6E-15	7E-16	1E-14
Root Veg. Intake/Distance to Receptor	<0.0001	2E-16	2E-13	6E-14	7E-15	1E-13
Fruit Intake/Child Soil Intake	<0.0001	9E-17	2E-14	7E-15	9E-16	2E-14
Fruit Intake/Distance to Receptor	<0.0001	8E-16	2E-13	7E-14	8E-15	1E-13
Child Soil Intake/Distance to Receptor	<0.0001	2E-16	2E-13	6E-14	7E-15	1E-13