

# Welcome to the CLU-IN Internet Seminar

NARPM Presents...Software Demonstration of the ATSDR Brownfields/Land Reuse Site Tool and the ATSDR Dose Calculator Tool

Delivered: October 4, 2011, 1:00 PM - 3:00 PM, EDT (17:00-19:00 GMT)

#### Presenters:

Gary D. Perlman, US Public Health Service ATSDR Region 1 (gap6@CDC.GOV, perlman.gary@epa.gov, or 617-918-1492)

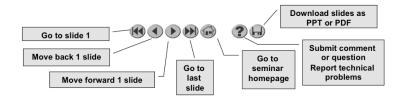
Moderators:

Michael Adam, U.S. EPA, Technology Innovation and Field Services Division (adam.michael@epa.gov or (703) 603-9915)

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- Please mute your phone lines, Do NOT put this call on hold
   press \*6 to mute #6 to unmute your lines at anytime
- Q&A
- Turn off any pop-up blockers
- Move through slides using # links on left or buttons



- This event is being recorded
- Archives accessed for free <a href="http://cluin.org/live/archive/">http://cluin.org/live/archive/</a>

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Although I'm sure that some of you have these rules memorized from previous CLU-IN events, let's run through them quickly for our new participants.

Please mute your phone lines during the seminar to minimize disruption and background noise. If you do not have a mute button, press \*6 to mute #6 to unmute your lines at anytime. Also, please do NOT put this call on hold as this may bring delightful, but unwanted background music over the lines and interupt the seminar.

You should note that throughout the seminar, we will ask for your feedback. You do not need to wait for Q&A breaks to ask questions or provide comments. To submit comments/questions and report technical problems, please use the ? Icon at the top of your screen. You can move forward/backward in the slides by using the single arrow buttons (left moves back 1 slide, right moves advances 1 slide). The double arrowed buttons will take you to 1<sup>st</sup> and last slides respectively. You may also advance to any slide using the numbered links that appear on the left side of your screen. The button with a house icon will take you back to main seminar page which displays our agenda, speaker information, links to the slides and additional resources. Lastly, the button with a computer disc can be used to download and save today's presentation materials.

With that, please move to slide 3.

## **Brownfields Software Tools**

October 4, 2011

Presenter: Gary Perlman

Team: Laurel Berman and Leann Bing Agency for Toxic Substances and Disease Registry (ATSDR)

## Who We Are - ATSDR

- ATSDR is a federal public health agency of the U.S. Department of Health and Human Services.
- Our goal is to prevent harmful exposures and diseases related to toxic substances.
- Our Brownfields/Land Reuse Initiative integrates public health principles into redevelopment.

## What Tools Are Available?

- Land Reuse SiteTool
- Dose Calculator
- Action Model
- DVDs healthy redevelopment videos





We will focus on the Land Reuse Site Tool and Dose Calculator

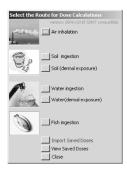


## **Land Reuse Screening Tool**

- Can be used for Brownfields inventory
- Rapid site assessment
- · Easy to use
- Uses site information to assess public health involvement.
- Includes an integrated Dose Calculator module
- Requires Microsoft® Access®

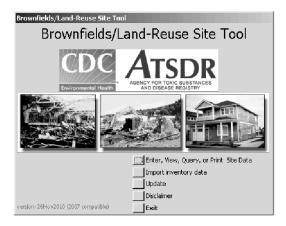






#### Brownfields/Land Re-use Site Tool

 This Tool is an inventory, rapid site screening and multiple chemical exposure dose calculating tool that allows users to assess sites by past/future use, institutional controls, sensitive populations, and suspected or confirmed contamination.



Gary

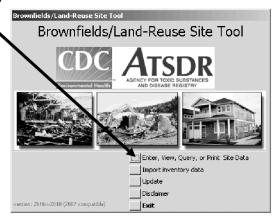
Brownfields/Land Re-use Site Tool

- Evaluate exposures by defining exposed populations and subgroups, multiple exposure pathways, user specific ingestion rates for population groups or use defaults
- Calculate doses using ranges of exposure parameters, 95% confidence intervals, geometric mean, and other statistical parameters.
- Test the data for Normal/Log Normal distributions Import and process laboratory data (10,000 data points per minute throughput)
- · Import site data from Excel.
- Export data.

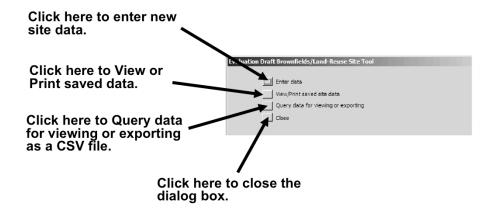
Slide 8

- Query data.
- Troubleshoot analytical problems.
- Set up quality-assurance or quality-control programs.
- · Compare various laboratory methods.

Start by clicking on the button labeled "Enter, View, Query, or Print Site Data"



#### Brownfields/Land Re-use Site Tool

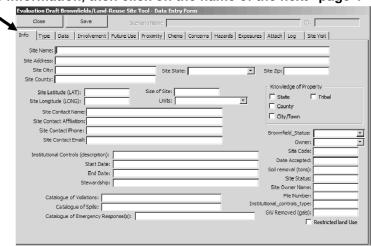


Brownfields/Land Re-use Site Tool

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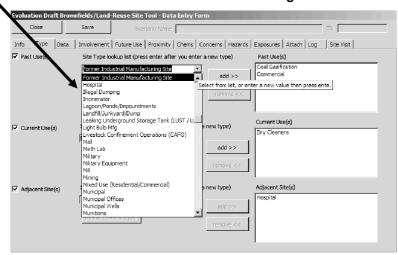
Slide 11

The information for each site is entered on a series of 13 screens. The screens are also known as "pages". The first page contains information related to "Site Information". Enter the site information, then click on the name of the next "page".



Brownfields/Land Re-use Site Tool

Enter "Past type(s), Current Uses, and Adjacent site(s) information. Select from the list and add to the box to the right.

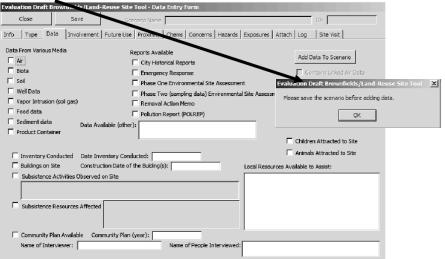


Brownfields/Land Re-use Site Tool

Slide 13

Enter information on this page labeled "Data" then click the next "page". If you will be importing analytical data, save the site data first and provide a "scenario name".

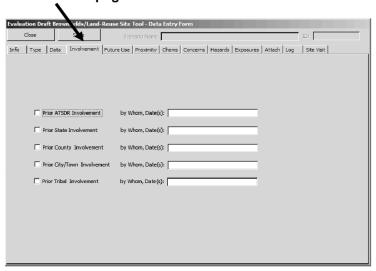
Evaluation Draft Brown. \*\*/Land-Reuse Site Tool - Data Entry Form



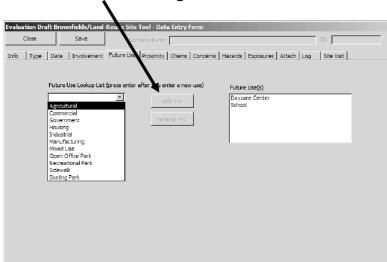
Brownfields/Land Re-use Site Tool

Slide 14

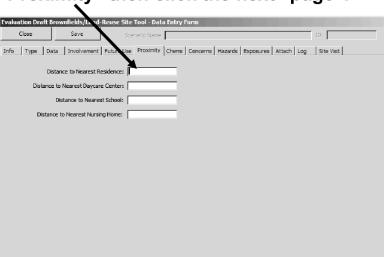
## Enter information on this page labeled "Involvement" then click the next "page".



# Enter "future Use" information. Select from the list and add to the box to the right.

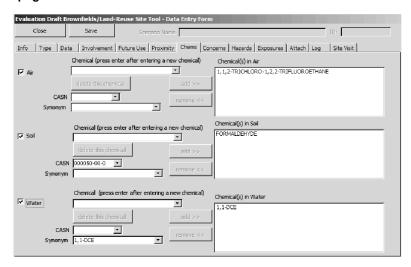


Enter information on this page labeled "Proximity" then click the next "page".



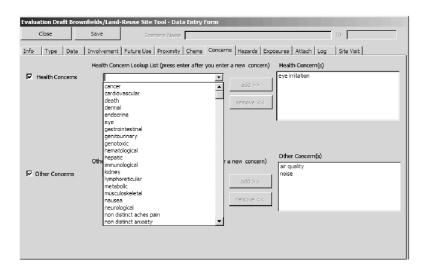
#### Brownfields/Land Re-use Site Tool

The information on this page is descriptive only chemical names will be saved. Select the chemical name then click "add>>" to add it to the site information to be saved. Analytical data can only be imported on the Data page.



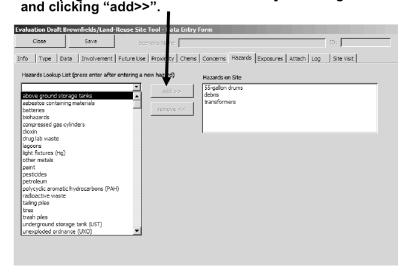
#### Brownfields/Land Re-use Site Tool

Enter health and other concerns by selecting from the list and clicking "add>>".

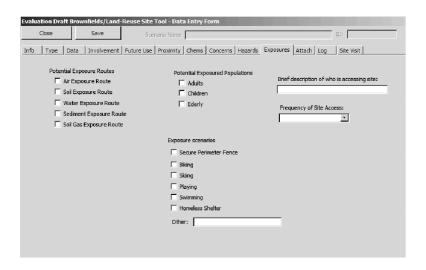


Brownfields/Land Re-use Site Tool

Enter information on this page labeled "Hazards" then click the next "page". The hazards are entered by selecting from the list and clicking "add>>".



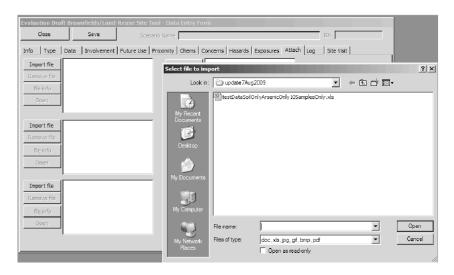
# Enter information on this page labeled "Exposure". Then click on the tab labeled "Attach."



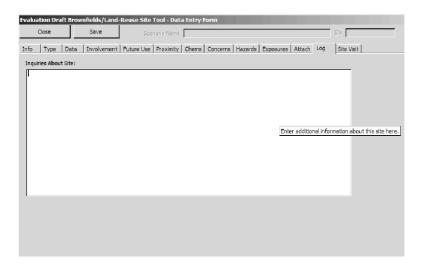
Slide 21

Brownfields/Land Re-use Site Tool

# You may attach up to 5 files (documents, spreadsheets, image files or PDF files).

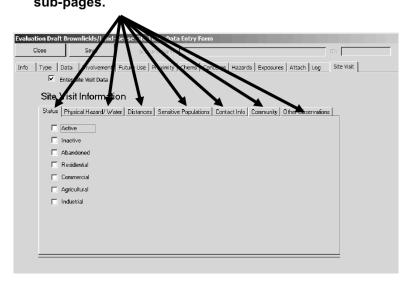


#### Enter additional information about the site here.

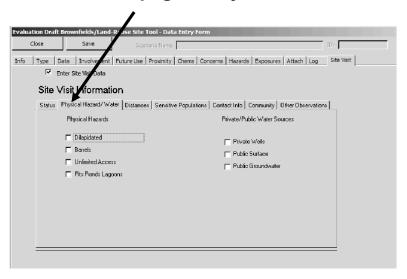


Brownfields/Land Re-use Site Tool

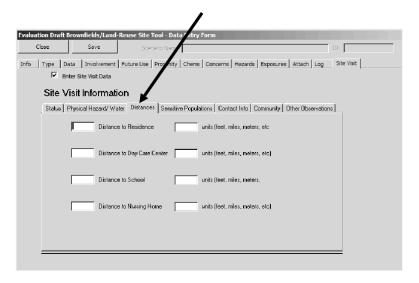
Site visit information (if available) can be entered on this page and sub-pages.



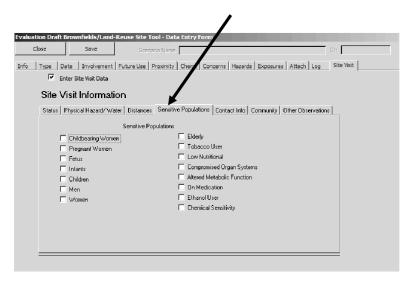
## Site Visit sub-pages: Physical Hazard/Water



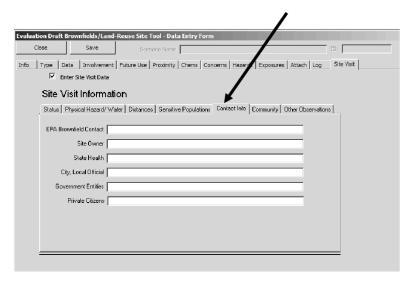
## Site Visit sub-pages: Distances



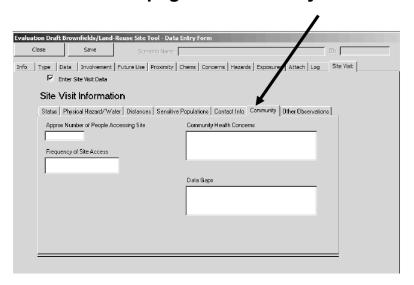
## Site Visit sub-pages: Sensitive Populations



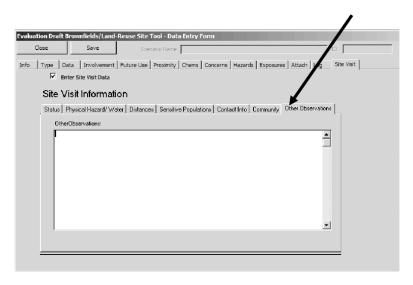
## Site Visit sub-pages: Contact Info



## Site Visit sub-pages: Community

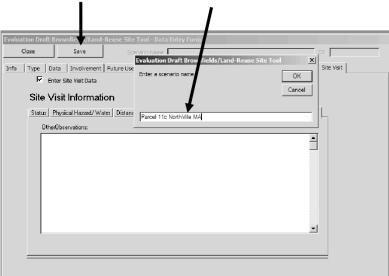


## Site Visit sub-pages: Other Observations

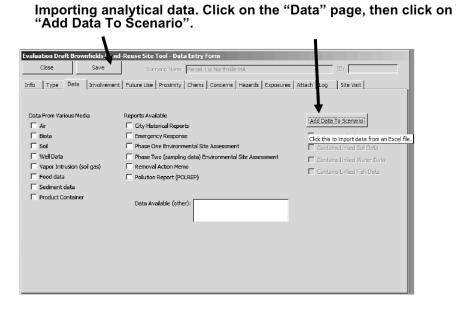


#### Brownfields/Land Re-use Site Tool

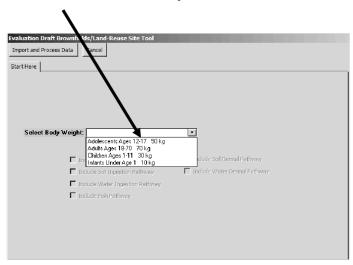
## Click on Save, then enter a scenario name.



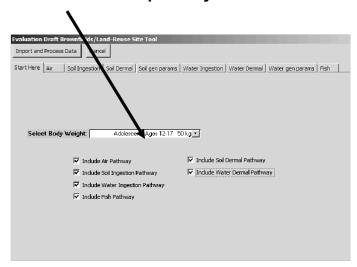
Brownfields/Land Re-use Site Tool



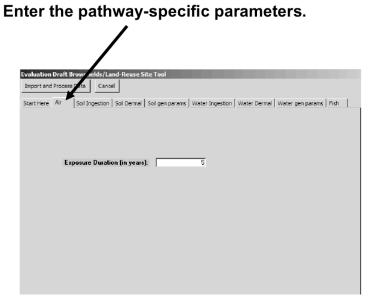
# Select body weight for the dose calculations that will be conducted on the imported data.



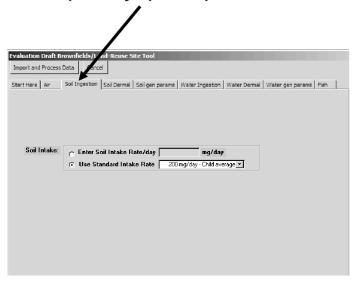
Then select the pathways to analyze. The database will check for each pathway in the datafile.



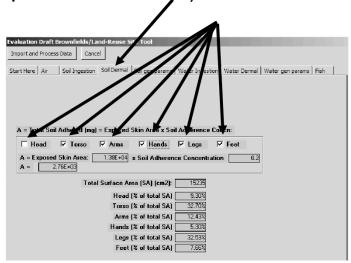
Brownfields/Land Re-use Site Tool



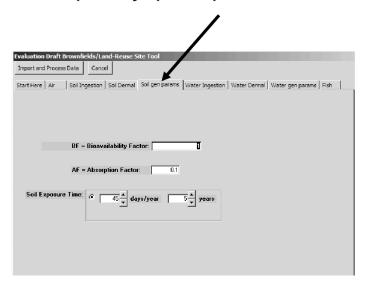
#### Enter the pathway-specific parameters.

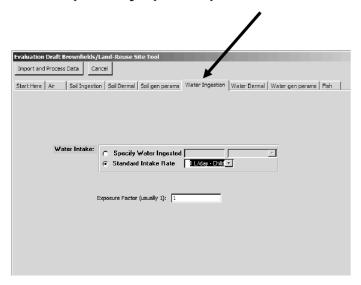


Enter the pathway-specific parameters. (Select areas exposed to contaminants).

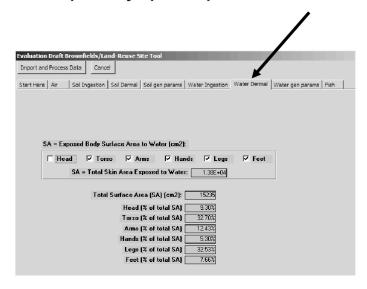


Brownfields/Land Re-use Site Tool

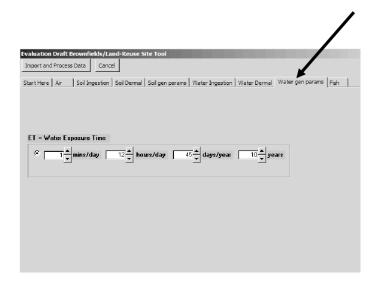




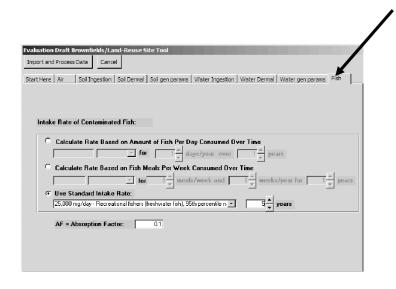
Brownfields/Land Re-use Site Tool



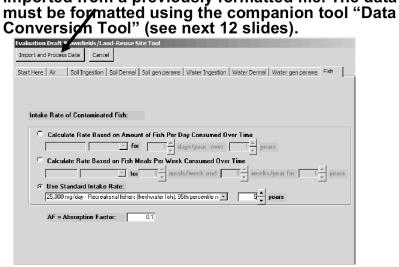
Brownfields/Land Re-use Site Tool



Brownfields/Land Re-use Site Tool



Click on "Import and Process Data". The data will be imported from a previously formatted file. The data must be formatted using the companion tool "Data Conversion Tool" (see part 12 slides)



Brownfields/Land Re-use Site Tool

If there are no errors in the exposure parameters the following dialog will be displayed, otherwise the error(s) will be identified.

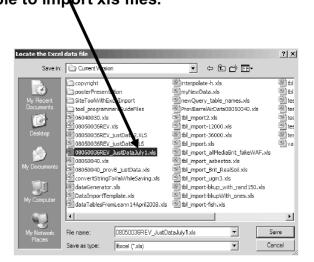
Evaluation Draft Brownfields/Land-Reuse Site Tool X

No errors detected.

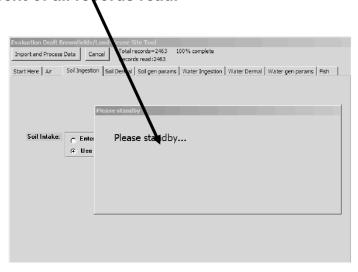
Errors detected: "(soil ingestion) soil intoke rate (entered)"

Brownfields/Land Re-use Site Tool

Locate the spreadsheet then click save. This system is only able to import xls files.



The number of records will be display along with the percent of all records read.



#### Brownfields/Land Re-use Site Tool

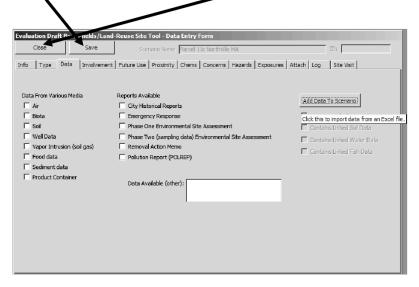
If there are any errors in the data (missing heading file, incorrect media, etc) they will be displayed. Otherwise, the dialog listed below will be displayed.



Brownfields/Land Re-use Site Tool

Slide 47

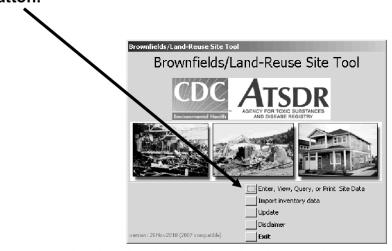
### Save the data, then click on Close.



Brownfields/Land Re-use Site Tool

Slide 48

To view and print the processed data, click on the top button.



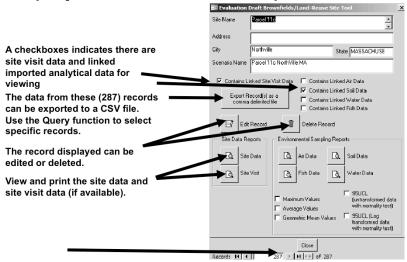
#### Brownfields/Land Re-use Site Tool

## Click on View/Print site data



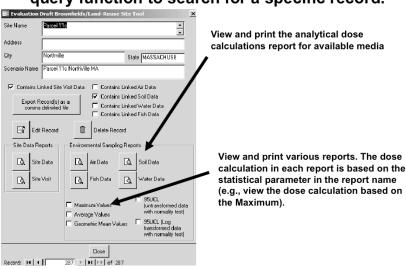
П

# The most recent site will be the last record. Use the query function to search for a specific record.



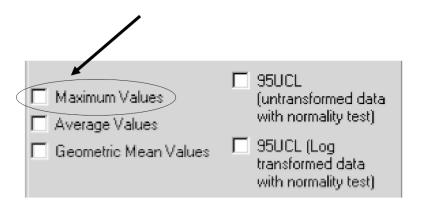
Brownfields/Land Re-use Site Tool

# The most recent site will be the last record. Use the query function to search for a specific record.



#### Brownfields/Land Re-use Site Tool

### **Reports – Maximum Values**



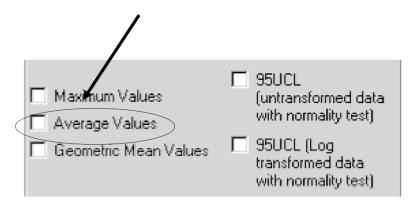
Brownfields/Land Re-use Site Tool

## Reports - Maximum values used in the calculations

| Soil-Results based on the maximum values. |                 |       |           | bw: 5.00E+01<br>AF: 1.00E-01 |   |    |   |               |              | 0 S.A.: 0.00E+00 |                    |
|-------------------------------------------|-----------------|-------|-----------|------------------------------|---|----|---|---------------|--------------|------------------|--------------------|
| Chemical                                  | CASN            | Units | CV name   | CV value                     |   |    |   | _             |              |                  | ose IngestCa DermC |
| Actual data are ab                        | ove a CV value. |       |           |                              |   |    |   |               |              |                  |                    |
| Arsenic                                   | 007440-<br>38-2 | ppm   | Soil CREG | 5E-01                        | Υ | 11 | 0 | 11            | 1.9E +01     | 7.6E-05          | 8.1E-06            |
|                                           |                 |       |           |                              |   |    |   |               | a cute MRL:  | 5.E -03          |                    |
|                                           |                 |       |           |                              |   |    |   |               | int MRL: n/a | -                |                    |
|                                           |                 |       |           |                              |   |    |   |               | chr MRL: 3.  | E-04             |                    |
|                                           | MN              |       |           |                              |   |    |   | 0, Q3=1.0E+1, |              | range=1.6E+1     |                    |
|                                           | ev              |       |           |                              |   |    |   |               |              |                  |                    |

#### Brownfields/Land Re-use Site Tool

### Reports – Average Values



#### Brownfields/Land Re-use Site Tool

### Reports – Average (arithmetic mean) values used in the calculations

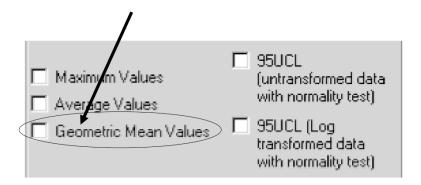
| Soil-Results based on the arithmetic mean. |                 |       |           |          | bw: 5.00 | E+01 | IR: | 2.00E +02 | A: 0.00E +00                  | В          | F: 1.00E+00          | S.4:     | 0.00E+00 |
|--------------------------------------------|-----------------|-------|-----------|----------|----------|------|-----|-----------|-------------------------------|------------|----------------------|----------|----------|
| Chemical                                   | CASN            | Units | CV name   | CV value |          |      |     |           | ED_yrs: 5.00E<br>D>CV AvgCond |            | mbs:<br>e DermalDose | IngestCa | Derm Ca  |
| Actual data are abo                        | ve a CV value.  |       |           |          |          |      |     |           |                               |            |                      |          |          |
| Arsenic                                    | 007440-<br>38-2 | ppm   | Soil CREG | 5E-01    | Υ        | 11   | 0   | 1         | 1 7.8E +00                    | 3.1E-0     | 5                    | 3.3E-06  | 3        |
|                                            |                 |       |           |          |          |      |     |           | acute MF                      | RL: 5.E-03 |                      |          |          |
|                                            |                 |       |           |          |          |      |     |           | int MRL:                      | n/a        |                      |          |          |
|                                            |                 |       |           |          |          |      |     |           | chr MRL:                      | 3.E-04     |                      |          |          |
|                                            |                 |       |           |          |          |      |     |           | +1, max=1.9E+1,               |            |                      |          |          |

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Slide 56

#### Brownfields/Land Re-use Site Tool

## Reports – Geometric Mean Values



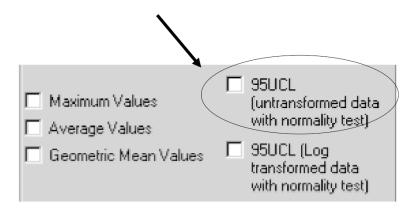
#### Brownfields/Land Re-use Site Tool

## Reports – Geometric Mean values used in the calculations

| Soil-Results E     |                 | Вw: 5.00 | E+01          | IR:      | 2.00E +02 | A:     | 0.00E +00 | BF       | : 1.00E+00          | S.4: 0       | 0.00E+00       |             |          |         |
|--------------------|-----------------|----------|---------------|----------|-----------|--------|-----------|----------|---------------------|--------------|----------------|-------------|----------|---------|
| John McGamillo L   | asca on me g    |          | ic mount      |          | AF: 1.    | 00E-01 | EF:       | 1.23E-01 | $ED_{\underline{}}$ | yrs: 5.00E - | +00 <i>lim</i> | bs:         |          |         |
| Chemical           | CASN            | Units    | CV name       | CV value | >CV       | N      | #ND       | # non NI | )>CV                | GMConc.      | Ing Dose       | DermalDos e | IngestCa | Derm Ca |
| Actual data are ab | ove a CV value  |          |               |          |           |        |           |          |                     |              |                |             |          |         |
| Arsenic            | 007440-<br>38-2 | ppm      | Soil CREG     | 5E-01    | Υ         | 11     | 0         | 1        | 1                   | 6.8E+00      | 2.7E-05        |             | 2.9E-06  | 3       |
|                    |                 |          |               |          |           |        |           |          |                     | acute MR     | L: 5.E-03      |             |          |         |
|                    |                 |          |               |          |           |        |           |          |                     | int M.R.L: n | /a             |             |          |         |
|                    |                 |          |               |          |           |        |           |          |                     | chr MRL:     | 3.E-04         |             |          |         |
|                    |                 | 91       | 1.5E+0, medi: |          |           |        |           |          |                     |              |                |             |          |         |

#### Brownfields/Land Re-use Site Tool

## Reports – 95 UCL (untransformed data)



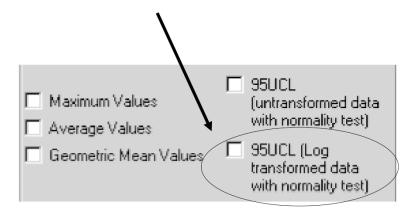
#### Brownfields/Land Re-use Site Tool

### Reports -95 UCL (untransformed data) values used in the calculations

| Chemical                | CASN            | Units | CV name        | CV value | >CV | N  | #ND | # non ND>CV   | UCL       | Ing Dose | DermalDose | IngestCa | Derm Co |
|-------------------------|-----------------|-------|----------------|----------|-----|----|-----|---------------|-----------|----------|------------|----------|---------|
| Actual data are above a | CV value        |       |                |          |     |    |     |               |           |          |            |          |         |
| Benzo(a)anthracene      | 000056-<br>55-3 | ppm   | PRG<br>ResSoil | 1E-01    | Υ   | 12 | 0   | 12            | 2.0E+01   | 8.1E-05  |            |          |         |
|                         |                 |       |                |          |     |    |     |               | a cute MR | L: n/a   |            |          |         |
|                         |                 |       |                |          |     |    |     |               | int MRL:  | n/a      |            |          |         |
|                         |                 |       |                |          |     |    |     |               | chr MRL:  | n/a      |            |          |         |
|                         |                 |       |                |          |     |    |     | Q8=7.E+0, max |           |          |            |          |         |
|                         |                 |       |                |          |     |    |     |               |           |          | MX         |          |         |

#### Brownfields/Land Re-use Site Tool

## Reports – 95 UCL (Log transformed data)



#### Brownfields/Land Re-use Site Tool

### Reports -95 UCL (Log transformed data) values used in the calculations

| Chemical           | CASN            | Units | CV name   | CV value | >CV | N  | #ND | # non N <b>D&gt;</b> CV | $UCI\_log$ | Ing Dose DermalD | los e IngestCa DeimCa |
|--------------------|-----------------|-------|-----------|----------|-----|----|-----|-------------------------|------------|------------------|-----------------------|
| Actual data are ab | ove a CV value. |       |           |          |     |    |     |                         |            |                  |                       |
| Arsenic            | 007440-<br>38-2 | ppm   | Soil CREG | 5E-01    | Υ   | 11 | 0   | 11                      | 1.2E +01   | 4.6E-05          | 5.0E-06               |
|                    |                 |       |           |          |     |    |     |                         | acute MRI  | L: 5.E-03        |                       |
|                    |                 |       |           |          |     |    |     |                         | int MRL: n | /a               |                       |
|                    |                 |       |           |          |     |    |     |                         | chr MRL: 3 | 3.E-04           |                       |
|                    |                 |       |           |          |     |    |     | 0, Q8=1.0E+1, m         |            | range=1.6E+1     |                       |

#### Brownfields/Land Re-use Site Tool

## Dose report - interpretation Key 1 of 5

- "CV"= comparison value

- "CV"= comparison value
  ">CV"= Number of data points above the comparison value
  "N"= Number of data points
  "#ND"= Number of data points that are non detect
  "#non ND>CV"= Number of data points that contained a value that was above the CV
  "MXConc"= Maximum concentration
  "Ing Dose"= Ingestion dose based on the Maximum Concentration
  "DermalDose"= Dermal dose based on the Maximum Concentration

- "IngestCa"= Ingestion cancer risk based on exposure parameters using the Maximum Concentration
- "DermCa"= Dermal cancer risk based on exposure parameters using the Maximum Concentration

| Soil-Results base       | ed on the m     | avimu | m values       |          | bw: 5.00 | E+01  | IR: 2.008 | +02 A:    | 2.76E +03    | BF:        | 1.00E ± 00   | S.4. 1.3         | 18E+04  |
|-------------------------|-----------------|-------|----------------|----------|----------|-------|-----------|-----------|--------------|------------|--------------|------------------|---------|
| Jon Aconto buse         | ou ou the m     |       | , racinco      |          | AF: 1.0  | 0E-01 | EF: 1.23  | E-01 ED   | 1/15: 5.00E+ | 00 limbs   | : torso,arms | ,hands,leg       | s,feet. |
| Chemical                | CASN            | Units | CV name        | CV value | >CV      | N     | #ND #1    | non ND>Cl | V MXCone     | Ing Dose I | DermalDos e  | IngestCa         | Derm Ca |
| Actual data are above a | CV value        |       |                |          |          |       |           |           |              |            |              |                  |         |
| Arsenic                 | 007440-<br>38-2 | ppm   | Sail CREG      | 5E-01    | Υ        | 16    | 0         | 16        | 3.1E +01     | 1.2E-04    | 2.1E-05      | 1.3E <b>-</b> 05 | 2.3E-06 |
|                         |                 |       |                |          |          |       |           |           | acute MRI    | L: 5.E-03  |              |                  |         |
|                         |                 |       |                |          |          |       |           |           | int M RL: n  | /a         |              |                  |         |
|                         |                 |       |                |          |          |       |           |           | chr MRL:     | 3.E-04     |              |                  |         |
|                         | MNQ1Q2.         |       |                |          |          |       |           |           | max=3.1E+1,  |            |              |                  |         |
| Benzo(a)anthracene      | 000056-<br>55-3 | ppm   | PRG<br>ResSoil | 1E-01    | Υ        | 16    | 14        | 2         | 8.3E -01     | 3.3E-06    | 5.7E-07      |                  |         |
|                         |                 |       |                |          |          |       |           |           | acute MRI    | L: n/a     |              |                  |         |
|                         |                 |       |                |          |          |       |           |           | int M RL: n  | /a         |              |                  |         |
|                         |                 |       |                |          |          |       |           |           | chr MRI :    | n/a        |              |                  |         |

#### Brownfields/Land Re-use Site Tool

## Dose report - interpretation Key 2 of 5

- "bw"= Body weight (kg)

  "AF"= Absorption fraction (unitless)

  "IR"= Ingestion rate (mg/day)

  "EF"=Exposure factor (unitless)

  "ED\_yrs"=Exposure duration (yrs)

  "BF"=Bioavailability factor (unitless)

  "SA"=Surface Area (cm^2)

  "A"= Total soil adhered (exposed skin \* soil adherence concentration) (mg)

  "limbs"=Areas of the body that were selected for the exposure scenario

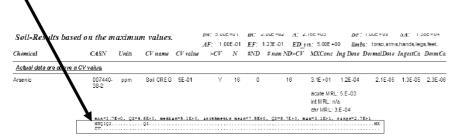
| Soil-Results base       | d on the n      | aximu | m values       |          | bw: 5.00 |    |    | E+02 A: |                         |           | 1.00E+00                           | SA: 1.3 |         |
|-------------------------|-----------------|-------|----------------|----------|----------|----|----|---------|-------------------------|-----------|------------------------------------|---------|---------|
| Chemical                | CASN            | Units | CV name        | CV value |          |    |    |         | yrs: 5.00E+<br>V MXConc |           | : torso,arm:<br>D <i>ermalDose</i> |         |         |
| Actual data are above a | CV value        |       |                |          |          |    |    |         |                         |           |                                    |         |         |
| Arsenic                 | 007440-<br>38-2 | ppm   | Soil CREG      | 5E-01    | Υ        | 16 | 0  | 16      | 3.1E +01                | 1.2E-04   | 2.1E-05                            | 1.3E-05 | 2.3E-06 |
|                         |                 |       |                |          |          |    |    |         | acute MF                | L: 5.E-03 |                                    |         |         |
|                         |                 |       |                |          |          |    |    |         | int M.R.L.:             |           |                                    |         |         |
|                         |                 |       |                |          |          |    |    |         | chr MRL:                | 3.E-04    |                                    |         |         |
|                         | MNQ1Q2.         |       |                |          |          |    |    |         | max=3.1E+1,             |           |                                    |         |         |
| Benzo(a)anthracene      | 000056-<br>55-3 | ppm   | PRG<br>ResSoil | 1E-01    | Y        | 16 | 14 | 2       | 8.3E -01                | 3.3E-06   | 5.7E-07                            |         |         |
|                         |                 |       |                |          |          |    |    |         | acute MF                | L: n/a    |                                    |         |         |
|                         |                 |       |                |          |          |    |    |         | int M.R.L.:             | n/a       |                                    |         |         |
|                         |                 |       |                |          |          |    |    |         | -t 10D1 -               | - 4-      |                                    |         |         |

#### Brownfields/Land Re-use Site Tool

#### Dose report - interpretation Key 3 of 5

- "acute MRL"= Acute MRL
- "int MRL"= Intermediate MRL "chr MRL"= Chronic MRL
- "n/a"= not available
- "5E-01"= Scientific notation for 0.5
- "Y"=yes, used to indicate that at least one data point was above the CV
- "min"= Minimum value
  "Q1"= First quartile (25% of the data)
- "Q2"= Second quartile (50% of the data)
- "median"=Middle value, half of the data points are above this value, also known as the Q2
- "arithmetic mean"= average value of the raw (non-transformed) data
- "Q3"= Third quartile (75% of the data)
  "max"= Maximum value
- "range"=Maximum minus the minimum

The two lines below graphically depict the spread (distribution of the data relative to the comparison value (see next slide for an enlarged version).



#### Brownfields/Land Re-use Site Tool

## Dose report - interpretation Key 4 of 5

There are 100 dots from the minimum to the maximum. Each dot represents the range/100. This is an arbitrary depiction of the data , and is used to provide a general visual picture of how the data are distributed.



#### Brownfields/Land Re-use Site Tool

W-Stat=9.7e-1 p-value=8.4e-1 These data are Log- normally distributed.

### Dose report - interpretation Key 5 of 5

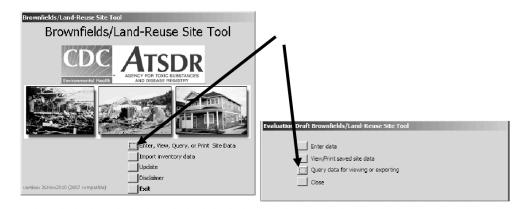
The <u>95% UCL of the Log transformed</u> data and the <u>95% UCL of the un transformed</u> reports contain an additional line of information.

"WL"= shapiro-wilk W statistic for normality "p-value"= the probability that the data are normally (or log-normally) distributed. If this value is less than 0.05 than the data are data are considered to NOT be normally (or log-normally) distributed) bw: 5.00E+01 IR: 2.00E+02 A: 0.00E+00 Soil-Results based on th CL of the AF: 1.00E-01 EF: 1.23E-01 ED\_yrs: 5.00E+00 limbs: arithmetic mean values. >CV N #ND # non ND>CV UCL Ing Dose DermalDose IngestCa DermCa Chemical CASN Actual data are above a CV value. Benzo(a)anthracene 2.0E+01 8.1E-05 int MRL: n/a chr MRL: n/a mean=9.E+0, Q3=7.E+0, max=6.5E+1, range=6.4E+1 W-Stat=4.5e-1 p-value=8.2e-6 \* p-value is < 0.05, These data are not normally distributed. Soil-Results based on the 95% UCL of AF: 1.00E-01 EF: 1.23E-01 ED\_yrs: 5.00E+00 limbs:  $the \ Log \ transformed \ values.$ CASN Units N #ND # non ND>CV UCL\_log Ing Dose DermalDose IngestCa DermCa Actual data are above a CV value. Soil CREG 5E-01 1.2E +01 4.6E-05 acute MRL: 5.E-03 sque MML.52-U3 int MRL:n/a dr MML:3E-04 min2:1E+0, Q1=4,8E+0, mediam=6.8E+0, arishmenic means and S+0, Q3=1.0E+1, max1.8E+1, range=1.6E+1 MM. C1 Q2 Q2 MML. Q3 MML. Q4 MML. Q4

#### Brownfields/Land Re-use Site Tool

## **Query function**

On the main screen, click "enter, View, Query, or Print Site Data". Then click on "Query data for viewing or exporting

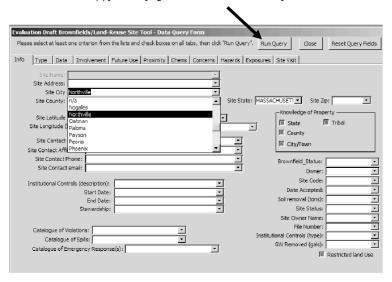


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#### Brownfields/Land Re-use Site Tool

## **Query function**

Select the criteria of the record(s) you are trying to locate then click "Run Query"



#### Brownfields/Land Re-use Site Tool

## **Query function**

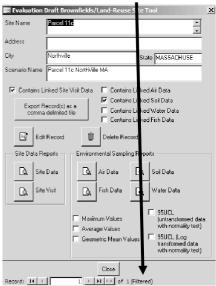
The number of record(s) matching the criteria are listed in the dialog box.



#### Brownfields/Land Re-use Site Tool

## **Query function**

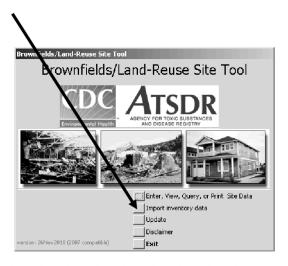
The record(s) matching the criteria are listed in the form below. (note the queried data are filtered and represent a subset of the entire data.)



#### Brownfields/Land Re-use Site Tool

## **Import Inventory Data Function**

Existing site data (not analytical data) can be imported by clicking on "Import inventory data."



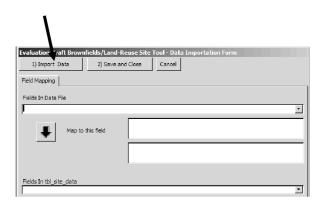
0

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#### Brownfields/Land Re-use Site Tool

## **Import Inventory Data Function**

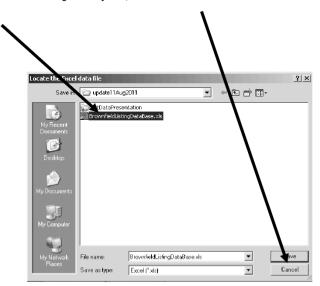
Click on "1) Import data"



#### Brownfields/Land Re-use Site Tool

# **Import Inventory Data Function**

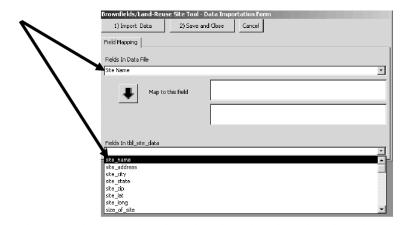
Locate the date file containing Inventory Data, then click Save.



#### Brownfields/Land Re-use Site Tool

## **Import Inventory Data Function**

Match fields in the imported data to the fields in the tool.



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#### Brownfields/Land Re-use Site Tool

## **Import Inventory Data Function**

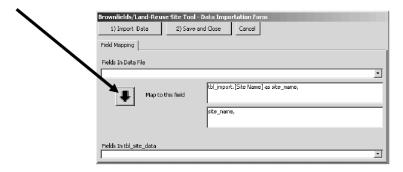
- Match each field in the data file to the fields in the table containing site data.

  1) Select the field from the top list (which contain the fields in the data file)

  2) Select the matching field from the second list

  3) Click on the Large Black Down Arrow. 1) 2) 3) 4) 5)

- When finished, click on Save and Close
- Note: each record must contain a unique field that must be matched up with "scenario" in the bottom list.



- Updates distributed on CD
- Evaluating tablet platform
- Suggestions always welcome



# For more information

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 US Public Health Service
 ATSDR Region 1

gap6@cdc.gov

## **ATSDR Dose Calculator** quick guide



- 1) Insert the CD.
- 2) Copy the file named "DoseCalculatorNov2010WithImport.mde" from the CD to your computer.
- 3) The Dose Calculator requires Microsoft Office 2003 Professional with Service Pack\_2. If your computer lacks Service Pack\_2 you will not be able to run the Dose Calculator, and the following error is often displayed:

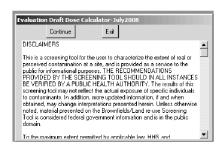
Visual Basic for Applications (VBA) encountered a problem while attempting to access a property or method. The problem may be one of the following:
A reference is missing.
For help restoring missing references, see the Microsoft Knowledge Base article 283806.

An Expression is misspelled.

4) Double click the file named "DoseCalculatorNov2010WithImport.mde" to run.

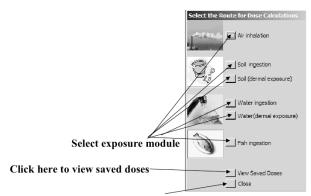
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#### **Disclaimer Screen**



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## **Exposure Module Selection Screen**

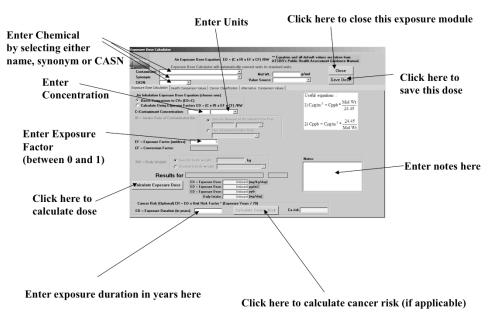


Click here to exit Dose Calculator

ATSDR Dose Calculator - quick guide.

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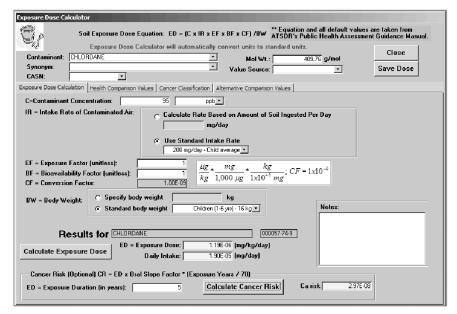
#### Air Exposure Module (example)



ATSDR Dose Calculator - quick guide.

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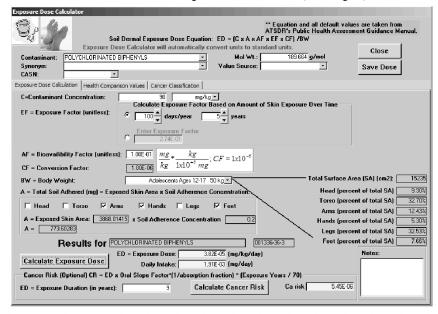
## **Soil Ingestion Exposure Module (example)**



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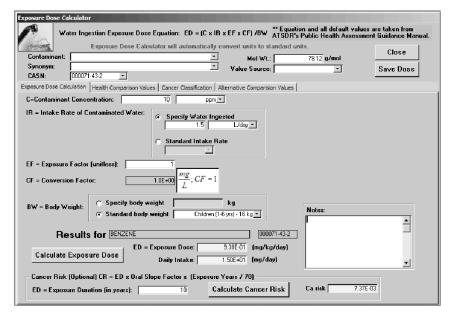
## Soil Dermal Exposure Module (example)



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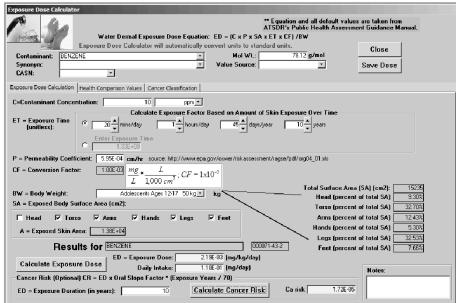
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## **Water Ingestion Exposure Module (example)**



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## Slide 85 Water Dermal Exposure Module (example)



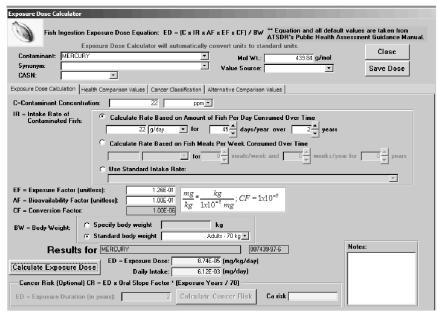
ATSDR Dose Calculator - quick guide.

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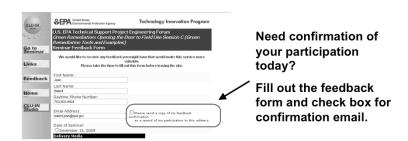
## Fish Ingestion Exposure Module (example)



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Resources & Feedback

- To view a complete list of resources for this seminar, please visit the **Additional Resources**
- Please complete the <u>Feedback Form</u> to help ensure events like this are offered in the future



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