



Framework for Chemical Selection

Possible Chemicals for Biomonitoring
in California

California Environmental Contaminant
Biomonitoring Program

June 10, 2008
Oakland, California

Selection Process in Legislation

**CDC
Chemicals**

**Designated
Chemicals**

**Selections
following PC
Criteria**

**Additions following
to DC Criteria**

**Priority (PC)
Chemicals for
California**

**Biomonitored
Chemicals**

Feasibility/Resources



“Designated chemicals”

“... consist of only those substances including **chemical families or metabolites** that are included in the federal Centers for Disease Control and Prevention studies ... and any substances as specified pursuant to subdivision (c) of Section 105449.

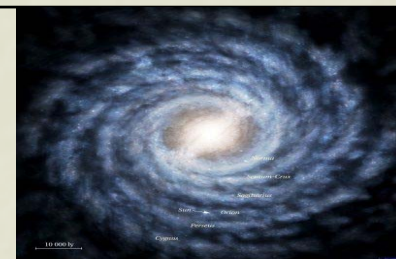
Chemical Selection Discussion at December 2007 Panel Meeting

Track 1:



- Get opinions about important exposures or what to biomonitor in California, from
 - the public
 - the industry
 - state government

Track 2:



- Broadly find out about what we exposed to
- Methodically work through chemical lists
- Identify bad actors that can be biomonitored

Action Items on Chemical Selection from Dec 2007 Panel Meeting

- “Track 1” Activities: Get input on which chemicals to biomonitor
 - Hold workshop with staff from other major biomonitoring programs
June 9
 - Hold public input workshops
3 workshops; 3 teleconferences
 - Ask other State of California programs
Program inquiries or interviews
 - Ask the industry and public
Survey (+ workshops and teleconferences)

- “Track 2” Activities: Work through chemical lists — CUPA, TRI, CDC, DPR, Proposition 65
- Difficult, large task. For further panel discussion



Description of the CDC chemicals begun

	Parent/Metabolite						IRIS	
	CDC 2003-2004 NHANES List	found at 90th %ile	Cancer Grp	Cancer	Repro/Dev	Endocrine	Oral RfD	Noncancer
CAS #	Parent Chemical (Alph. by Group)	in 3rd CDC report	(IARC)	(Prop 65)	(Prop 65)	Disruptor	mg/kg-d	Critical Effect (oral)
	Phthalates							
85-68-7	Benzylbutyl phthalate	X	3		X	1	2.E-01	Increased liver:body weight & liver:brain weight ratios

- Could expand to other lists or lists of suggested chemicals and other lists & add persistence, bioavailability and other categories
 - Hard to do with current resources
 - Unclear how expanded table would be used
- ⇒ Further Panel discussion would be helpful

Chemical Selection Presentations

- Chemicals / Chemical families suggested
 - At workshops, teleconferences, through email and surveys
Diana Lee – California Department of Public Health
 - During interviews and through other inquiries of state staff
Gail Krowech – Office of Environmental Health Hazard Assessment (OEHHA)
- Ways to select priorities (this afternoon)
 - Suggestions from public and state staff
Amy Dunn - OEHHA

Caveats

- State programs and public were asked
“What do you think should be biomonitoring?”
 - Designated vs. priority chemical distinction not made
- Program envisions designated chemical and priority chemicals pools to evolve over time
 - Chemical selection recurring agenda item at Panel meetings