

Potential Designated Chemical

Manganese (Mn)

Mari Golub, Ph.D.

Office of Environmental Health Hazard Assessment

Additional slide on manganese health effects presented to

Scientific Guidance Panel

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Known or suspected health effects: examples of associated blood levels

Endpoint	Population	Control	Affected	Study
Neurological signs	Welders	6.1 µg/L	12.2 µg/L	Halatek et al., 2008
Neurobehavioral tests	Alloy plant workers	7.2 µg/L	11.2 µg/L	Mergler et al., 1994
ADHD diagnosis	9 year olds	3.5 µg/L	5.2 µg/L	Farias et al., 2010
Bayley MDI	1 year olds	20–28 µg/L	>28 µg/L	Claus Henn et al., 2010
IUGR	Newborns: Cord blood	38.2 µg/L	44.7 µg/L	Vigeh et al., 2008