

US EPA ARCHIVE DOCUMENT

TABLE 7-3

**GENERAL MOTORS CORPORATION
NAO FLINT OPERATIONS SITE - FLINT, MICHIGAN
RFI PHASE II REPORT**

**COMPARISON OF CHEMICAL CONCENTRATIONS IN SOIL SAMPLES FROM ECOLOGICAL AREAS OF INTEREST
TO SCREENING LEVELS AND BACKGROUND CONCENTRATIONS**

Analyte	Maximum Concentration in Ecological Areas of Interest	Site-Specific Background	Michigan State Background	EPA Region 5 ESLs	EPA Eco-SSL Plants	EPA Eco-SSL Invertebrates	EPA Eco-SSL Bird	EPA Eco-SSL Mammal	ORNL Benchmark Microbes	ORNL Benchmark Worms	ORNL Benchmark Plants
Total Metals (mg/kg)											
Antimony	0.089 J	0.09		0.142		78	0.3	0.27			5
Arsenic	5.8	8.1	5.8	5.7	18		43	46	100	60	10
Beryllium	0.64	0.59		1.06		40		21			10
Cobalt	3.6	7.1	6.8	0.14033	13		120	230	1,000		20
Manganese	1,300J	480	440						100		500
Nickel	15	20	20	13.6					90	200	30
Selenium	0.65	0.52	0.41	0.02765					100	70	1
Thallium	0.12J	0.2		0.05692							1
Vanadium	17	25		1.59			7.8				2
Zinc	170	110	47	6.62	130	120		280	20		2
Semivolatile Organic Compounds (μ g/kg)									100	200	50
Benzo[b]fluoranthene	120J			59,800							
Benzo[k]fluoranthene	100J			148,000							
Benzo[a]pyrene	81J			1,520							
Chrysene	87J			4,730							
Fluoranthene	170J			122,000							
Phenanthrene	83J			45,700							
Pyrene	150J			78,500							
Volatile Organic Compounds (μ g/kg)											
Methyl acetate	260J										
Methyl cyclohexane	43J										
Polychlorinated Biphenyls (μ g/kg)											
Polychlorinated biphenyls	850			0.332							40,000

Notes:

Includes data from the following samples collected in the vicinity of the vacant lot: RFI-07-12, 13, 14; and WL-B1A, B2A, B3A, B4A, B5A, B6A

All concentrations are dry weight.

Boxed screening values are below maximum Site concentration.

Site-specific and Michigan state background values taken from Table 4-1. Michigan default background values are included for reference.

Eco-SSL = ecological soil screening level (EPA 2005)

EPA = United States Environmental Protection Agency.

ESL = Region 5 ecological screening level (EPA 2003)

ORNL = Oak Ridge National Laboratory (Efroymsen et al. 1997a, b)