



**Minnesota
Pollution
Control
Agency**

FACT SHEET

PAH List

May 1998

Ground Water and
Solid Waste

The Minnesota Pollution Control Agency (MPCA) has recently received recommendations from the Minnesota Department of Health (MDH) on the Polynuclear Aromatic Hydrocarbons (PAHs) commonly analyzed as the carcinogenic and noncarcinogenic lists. It has been recognized that there has been confusion in the past as to what compounds were considered carcinogenic and noncarcinogenic and therefore a list has been published to hopefully alleviate future problems in this area.

The following list of compounds is considered to be the carcinogenic PAH list (LIST #1):

- Benz(a)anthracene
- Benzo(b)fluoranthene
- Benzo(j)fluoranthene
- Benzo(k)fluoranthene
- Benzo(a)pyrene
- Indeno(1,2,3-cd)pyrene
- Dibenz(a,h)anthracene
- Chrysene

The following list of compounds is considered to be the non-carcinogenic PAH list (LIST #2):

- Phenanthrene
- Pyrene
- Acenaphthene
- Acenaphthylene
- Anthracene
- Benzo(e)pyrene
- Benzo(g,h,i)perylene

- Fluoranthene
- Fluorene
- Naphthalene
- 2-Methyl Naphthalene

The following list are PAHs that are recognized as carcinogenic, but unlikely to be found in the groundwater or environment (LIST #3):

- Dibenz(a,h)acridine
- Dibenz(a,j)acridine
- 7H-Dibenzo(c,g)carbazole
- Dibenzo(a,e)pyrene
- Dibenzo(a,h)pyrene
- Dibenzo(a,i)pyrene
- Dibenzo(a,l)pyrene
- 5-Methylchrysene

Future analyses that are performed for the MPCA shall run the first two lists (to be called Lists 1 and 2 for clarification). The third list shall not be run unless so specified in standing agreements or records of decision on a site.

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