



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

7272 Cleanwater Lane, LU-11 • Olympia, Washington 98504 • (206) 753-2353

M E M O R A N D U M
July 23, 1984

To: Greg Cloud
From: Art Johnson *aj*
Subject: Organics Analysis of B & L Leachate

Attached are the results of analysis for EPA organic priority pollutants/hazardous substances in a sample of B & L leachate collected by Dale Norton on February 14, 1984. A flow of 0.032 cfs was measured at the time of collection. These data are summarized below, along with calculated loads to Hylebos Creek and notes on available water quality criteria or other toxicity data.

Compound	Concentration (ug/L)	Load (grams/day)	EPA Criteria (ug/L) ¹	NIOSH Data ²
4-methylphenol	6,400	500	None	Oral rat LD ₅₀ : 242 mg/Kg
benzoic acid	600	47	None	Oral rat LD ₅₀ : 2530 mg/Kg
phenol	400	31	10,200 acute toxicity f.w. life 300 human organoleptic	Aq. Tox. Rating: T1m96: 100-10 ppm.
acetone	370	29	None	Aq. Tox. Rating: T1m96: over 1000 ppm
toluene	.38	3.0	17,500 acute toxicity f.w. life 14,300 human health	Aq. Tox. Rating: T1m96: 100-10 ppm
2-methylphenol	28	2.2	None	Oral rat LD ₅₀ : 121 mg/Kg
2-hexanone	8.4m	≤ 0.7	None	None
4-methyl-2-pentanone	5.7m	≤ 0.4	None	Aq. Tox. Rating: T1m96: over 1000 ppm
ethylbenzene	1.7m	≤ 0.1	32,000 acute toxicity f.w. life 1,400 human health	Aq. Tox. Rating: T1m96: 100-10 ppm

¹Fed. Reg., Vol. 45 no. 231, November 1980.

²Registry of Toxic Effects of Chemical Substances. 1982. Nat. Inst. Occup. Safety & Health.
m = detected, but concentration below quantification limit shown.

AJ:cp

Attachment

cc: Frank Monahan
Jim Krull
Bill Yake

DATA PREP/RELEASE BY: CC 1 MAM

SAMPLE NO: J 3433 BFL leachate
 February 14, 1984

ORGANICS ANALYSIS DATA SHEET

LABORATORY: California Analytical Labs, Inc.
 LAB SAMPLE NO: S4052

CASE NO: 2354/730J
 QC REPORT NO: RED 730J-4
 CONTRACT NO: 68-01-6763

DATE SAMPLE REC'D: 2/16/84
 SAMPLE MATRIX: WATER
 PERCENT MOISTURE:

COVER LETTER IS AN INTEGRAL PART OF THIS REPORT - PLEASE READ

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)
 DATE EXTRACTED/PREPARED: 2/20/84
 DATE ANALYZED: 3/13/84

PP#	CAS #	ug/L	PP#	CAS #	ug/L	
21A	88-06-2	2,4,6-trichlorophenol	528	87-68-3	hexachlorobutadiene	1.0 U
22A	59-50-7	p-chloro-m-cresol	538	77-47-4	hexachlorocyclopentadiene	1.0 U
24A	95-57-8	2-chlorophenol	548	78-59-1	isophorone	1.0 U
31A	120-83-2	2,4-dichlorophenol	558	91-28-5	naphthalene	1.0 U
34A	105-67-9	2,4-dimethylphenol	568	98-95-3	nitrobenzene	1.0 U
37A	88-75-5	2-nitrophenol	620	86-30-6	N-nitrosodiphenylamine	1.0 U
38A	100-02-7	4-nitrophenol	638	621-64-7	N-nitrosodipropylamine	1.0 U
39A	51-28-5	2,4-dinitrophenol	668	117-81-7	bis(2-ethylhexyl)phthalate	1.0 U
40A	534-52-1	4,6-dinitro-o-cresol	678	85-68-7	benzyl butyl phthalate	1.0 U
44A	87-86-5	pentachlorophenol	688	84-74-2	di-n-butyl phthalate	1.0 U
45A	108-95-2	phenol	698	117-84-0	di-n-octyl phthalate	1.0 U
47.1	65-85-0	benzoic acid	708	84-66-2	diethyl phthalate	1.0 U
47.2	95-48-7	2-methylphenol	718	131-11-3	dimethyl phthalate	1.0 U
47.3	108-39-4	4-methylphenol	728	56-55-3	benzo(a)anthracene	0.1 U
47.4	95-95-4	2,4,5-trichlorophenol	738	50-32-8	benzo(a)pyrene	0.1 U
48	83-32-9	acenaphthene	748	205-99-2	benzo(b)fluoranthene	0.1 U
53	92-87-5	benzidine	758	207-08-9	benzo(k)fluoranthene	0.1 U
88	120-82-1	1,2,4-trichlorobenzene	768	218-01-9	chrysene	0.1 U
98	118-74-1	hexachlorobenzene	778	208-96-8	acenaphthylene	0.1 U
28	67-72-1	hexachloroethane	788	120-12-7	anthracene	0.1 U
38	111-44-4	bis(2-chloroethyl)ether	798	191-24-2	benzo(ghi)perylene	0.1 U
408	91-58-7	2-chloronaphthalene	808	86-73-7	fluorene	0.1 U
458	95-50-1	1,2-dichlorobenzene	818	85-01-8	phenanthrene	0.1 U
468	541-73-1	1,3-dichlorobenzene	828	53-70-3	dibenzo(a,h)anthracene	0.1 U
478	106-46-7	1,4-dichlorobenzene	838	193-39-5	indeno(1,2,3-cd)pyrene	0.1 U
488	91-94-1	3,3'-dichlorobenzidine	848	129-00-0	pyrene	0.1 U
458	121-14-2	2,4-dinitrotoluene	CL5	62-53-3	aniline	1.0 U
468	606-20-2	2,6 dinitrotoluene	CL6	100-51-6	benzyl alcohol	1.0 U
478	122-66-7	1,2-diphenylhydrazine	CL7	106-47-8	4-chloroaniline	1.0 U
498	206-44-0	fluoranthene	CL8	132-64-9	dibenzofuran	0.1 U
408	7005-72-3	4-chlorophenyl phenyl ether	CL9	91-57-6	2-methylnaphthalene	1.0 U
418	101-55-3	4-bromophenyl phenyl ether	CL10	88-74-4	2-nitroaniline	1.0 U
428	39638-32-9	bis(2-chloroisopropyl) ether	CL11	99-09-2	3-nitroaniline	1.0 U
433	111-91-1	bis(2-chloroethoxy) methane	CL12	100-01-6	4-nitroaniline	1.0 U

NON COMPOUNDS - FS

FOR DATA REPORTING QUALIFIERS SEE COVER LETTER

DATA IS HELD FOR A MINIMUM OF 90 DAYS THEN SENT TO NEIC FOR EVIDENCE AUDITING

U = NOT DETECTED AT LIMIT OF DETECTION

M = DETECTED BUT NOT QUANTIFIED AT LIMIT OF QUANTIFICATION

